

## Building Façade Repairs

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## SECTION 1 – Categorization

This report will document a pilot study undertaken by Broadway Real Estate Services LLC, hereafter known as the building "Owner" to evaluate the self-implementing on-site cleanup and disposal option of Title 40 § 761.61, PCB remediation waste. The structure of this document is based upon electronic Code of Federal Regulations (copy attached).

### 1.01 Applicability

100 California is a 14 story building constructed in the 1960s. The building is occupied and is surrounded by paved surfaces with the exception of eight planters on the east (6) and south sides (2) of the building. Exterior finishes for the first floor of the main building are glass with columns clad in marble and granite. Exterior finishes from the second floor 25' and above are glass, stone (primarily white and black granite) with miscellaneous metal appurtenances (see photo). Exterior finishes for western low rise building are granite.





## 2.0 Site Characterization

### 2.01 Bulk Caulk Samples

TABLE 1 - Bulk Caulking Sampling Data: Between the months of May and June of 2009 a total of 68 bulk caulking samples were collected from the subject building. Samples were collected across all elevations of the building. The results of this testing indicated that caulking containing PCBs (Aroclors 1254 and 1260) was used to seal the joints between exterior granite panels, marble panels, metal panels and metal mullions. The caulking is presently intact and remains adhered to the building. The total estimated amount of caulking is 124,647 linear feet. Assuming the caulking covers approximately ¼ inch on across the face of a granite, a marble or a metal panel an overall square footage of cleanup area of roughly 5,200 square feet is estimated. Table 1 provides a summary of the bulk sampling data. All samples were transferred under chain of custody to McCampbell Analytical, Inc. Samples were analyzed using EPA method 8082. Sampling results are in the attachments.

PCB concentrations for the first floor ranged from non-detect (ND) to <100 parts per million (ppm), and for the second floor and above from approximately 12 ppm to 38,000 ppm for stone to stone and stone to metal surfaces. The maximum caulking concentration (189,000 ppm) measured was on metal to metal panels located under the windows. The caulking on the upper floors was predominately black, while that on the ground floor was white / black in color. PCB caulking will be removed from building finishes and the metal will be re-caulked with non-PCB caulking. Metal is considered non-porous and will not be discussed further.

### 2.02 Planter Soil Samples

**Table 2.0** - There are seven shallow landscaping planters approximately four feet by four feet in size along the east side of the building. There is one larger planter approximately four feet by twelve feet at the southern end of the building. One 3 point composite soil sample was collected from seven of the eight planters as follows: diagonal corners and at the approximate center line of the diagonal. Planter #1, the larger planter, was sampled twice in an X pattern. Sample depth was the first four inches of soil, which were composited and transferred to McCampbell Analytical under chain of custody. The result of testing indicated that the second planter at the southeastern corner of the building had concentrations of Aroclor 1254 at 1.1 ppm. Six of the other planters also had detectable concentrations of either Aroclor 1254 or Aroclor 1260 ranging from 0.10 - 0.44 ppm.

At the direction of EPA a single sample was collected from each planter for a total of eight samples. The results of this testing indicated the presence of Aroclor 1254. Sample concentrations ranged from 1.0 to 39 ppm for the tests (See drawing associated with Table 2.0 for sample locations). The owner will remove the top layer of soil (6") or all soils from the affected planters and / or replace with clean soils as needed so that "No Further Action" is required.

## 2.03 Pilot Study:

On September 29, 2009, in order to determine the amount of residual PCB's remaining in stone finishes following a typical envelope repair, a pilot study was undertaken by Urban Water Proofing with the assistance of their subcontractor Restec Environmental. The pilot study entailed the removal of PCB caulking, surface grinding of exposed edges, followed by alcohol cleaning of stone interfaces to remove loose debris. After this surface preparation and prior to the replacement of caulking, representative stone chip and surface wipe samples were collected as follows:

- A. A total of 22 samples were collected across two elevations of the building by Urban Waterproofing and Restec. The sample results are reported in Table 3.
  1. **Table 3.0** - Nine (9) stone chip (granite and marble on the first floor and granite on upper floors) samples of building finishes were collected by Urban Water Proofing for the purpose of PCB extraction and analysis. All samples were analyzed by McCampbell Analytical, Inc. using EPA method 8082 (see Table 3.0). Samples were collected from stone panels in contact with caulking on the 1st, 7th, 11th, 12th and 13th floors. Analysis of the stone chips at the ground floor revealed < 0.79 ppm detectable levels of PCB Aroclor absorbed into the edge of the stone. Chip samples collected from upper floors indicated concentrations ranging from < 0.50 ppm to 5.4 ppm<sup>1</sup>.
  2. **Table 3.1** - Nine (9) wipe samples were collected by RGA following Standard Wipe Test method for PCBs, 40 CFR 761.123. For all wipe test areas there was no detectable PCB Aroclor residue accumulated on the stone surfaces following prep-work<sup>2</sup> and cleaning.
  3. **Table 3.2** - Three (3) grout samples collected by Urban Waterproofing and Restec indicated PCB concentrations within the cement grout<sup>3</sup> at 29.36 ppm. As the grout will be completely removed and properly disposed of it is not discussed further as part of this report.

## 2.04 Testing Results Summary

- A. **Table 1** - Bulk Caulking samples collected across all elevations of the building indicate the caulking on the first floor of the building was different from upper floors both in color (dark gray/white color) and PCB concentration. Caulking on second floor, which begins at 25' vertical feet above the first floor of the building, is black. PCB concentration for the dark gray/white caulking ranges from non-detect to 150 ppm. PCB concentrations for the black caulking range from 13 ppm to 38,000 ppm with an average concentration of 4,900 ppm.
- B. **Table 3.0**- Chip testing indicated that over the previous 50 years, stone surfaces have absorbed relatively small amounts of PCBs from caulking. Residual PCBs within building finishes were measured at < 0.79 ppm at ground level, while upper floors had concentrations ranging from < 0.05 ppm to 7.32 ppm (at a 95% confidence level see Section 4.0 Cleanup Levels - yellow).
- C. **Table 3.1**- Approximately 100 cm<sup>2</sup> of the exposed surface area between the panels was wipe-sampled by RGA using the Standard Wipe Test protocol with hexane as defined in 40 CFR 761.123. Wipe samples were collected following surface preparation. The results of wipe sampling for all test areas indicated no detectable levels of PCBs for any of the samples collected.

<sup>1</sup> 95% Confidence based upon the sample set - 8 solid samples with ND results marked up to detection limits.

<sup>2</sup> Caulking is removed via razor cutting. Surfaces are prepared via grinding.

<sup>3</sup> Grout is between white granite sheathing under windows



### 3.0 Notification and Certification

The requirements under this program require at least 30 days prior notification to the agency(s) that the cleanup of the site is beginning. This notification is given by the person or organization in charge of the cleanup or the property owner of the PCB remediation waste site. This notification was done by the owner in September, 2009. The agency(s) are the following:

- US Environmental Protection Agency Regional Administrator – Region 9 Jared Blumenfeld
- Department of Toxic Substances Controls
- Bay Area Air Quality Management District

This notice included the following information:

#### 3.01 Nature of the Contamination

The nature of the contamination is caulk that was used to fill in the seams between metal and/or stone panels on the sides of the building. These caulking materials contained PCBs at varying concentrations. Small amounts of the PCBs may have leached into the unfinished edges of the stone panels causing very low level contamination of this stone material. Testing of planters at the front of the building indicated a 1.1 ppm concentration of Aroclor 1254 within one planter **at the southeast corner of the building.**

#### 3.02 Summary of Procedures Used to Sample Contaminants

The procedures used to sample and characterize the contaminants are identified in Section 2.0 of this document and are comprehensive in nature. A table of the contaminant concentrations and a location are attached to this document. All sample collection information, locations and dates of sampling are noted in those documents. The pilot study done to document the extent of contamination is detailed in Section 2.0.

#### 3.03 Locations and Extent of Identified Contaminants

The information requested for this section is located in Section 2.0 of this document. All relevant data that has been collected and characterized are in that section. Further details of pertinent information are included in previous documents submitted to the agencies for review. Additional materials that may be requested or needed will be provided to the agencies upon request.

#### 3.04 Cleanup Plan and Schedule for the Site

This information is in Section 5.0 of this document and references all of the practices and procedures that will be followed by the property owner, the prime contractor and the sub-consultants and prime consultants working on this project.

#### 3.05 Written Certification of Compliance

This section designates that all documents, including, but not limited to, sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, analytical procedures and other ancillary documents are filed at a location on the cleanup site and are available for review with proper advance notification by EPA and other designated regulatory authorities. This certification shall be signed by the project manager, prime contractor and the property owner and a copy will be kept with the documents. Electronic documents may be substituted at the discretion of the EPA and other regulatory agencies.

- The EPA Regional Administrator has 30 calendar days to respond to the notification by the owner, either approving or denying the request for the self-implementing cleanup. If the EPA administrator does not respond within the time period, the owner submitting the application may assume that it is complete and acceptable and proceed with the cleanup according to the work plans in place. Once the cleanup is underway, the owner will provide written notification of any proposed changes to the cleanup plan to the

EPA Regional Administrator no later than 14 calendar days prior to implementation of the changes. If the administrator is not in agreement with the proposed changes, they will respond verbally within 7 days and in writing within 14 calendar days.

- The owner may obtain a waiver to the 30 day notification period requirement if they receive a separate waiver in writing from each agency that they are required to notify. All documents pertaining to these sections shall be kept on file or electronically with EPA approval at the cleanup site location.



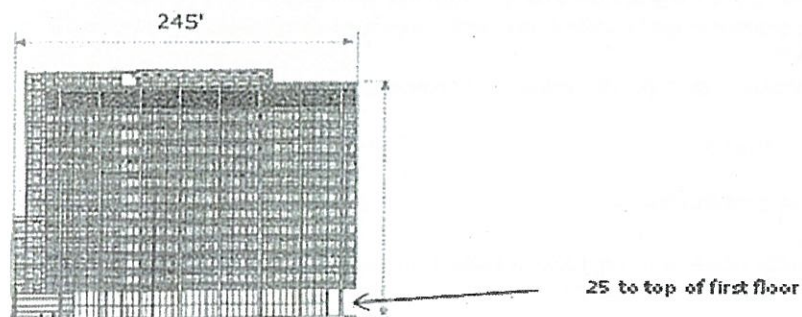
## 4.0 Cleanup Levels

The building entrance is defined as a high occupancy area under the regulations. Residual PCBs within finishes in this area were measured at < 0.79 ppm and thus meet cleanup levels without further action. Exterior granite finishes on upper floors<sup>4</sup> are low occupancy under the regulation and have residual concentrations of PCB containing material of < 5.5 ppm, which meets the current cleanup levels for low occupancy areas requiring no further action. Using the same testing results and assuming a 95% confidence limit for the upper floors a concentration of 7.32 ppm is calculated (see below). This concentration also meets the current cleanup levels for low occupancy areas requiring no further action.

These results are consistent with the guidance given in CFR 761.62 and there is no scientific or professional reasoning to deviate from those regulatory limits for this project, especially in light of the pilot study.

**TABLE 3.0 Pilot Study Stone PCB Sampling Data indicating residual PCB materials remaining within building finishes at the 68% and 95% confidence level - See attachments for laboratory data and sample locations**

Sample ID	Date	Floor	Sample Type	Sample Description	Conc ppm	SD	AVG	0.68	0.95	Aroclor Type	Report Limit ppm
M1	9.29.09	01st	Solid	White Marble	<0.79						.025
WG6	9.29.09	07th	Solid	White Granite	2.1	2.1	2.1			1	.025
BG6	9.29.09	07th	Solid	Black Granite	5.4	5.4	5.4			1,2	.025
M3	9.29.09	07th	Solid	White Marble	<0.60	0.6	0.6				.025
BG5	9.29.09	11th	Solid	Black Granite	<0.50	0.5	0.5				.025
WG4	9.29.09	11th	Solid	White Granite	<0.91	0.91	0.91				.025
WG2	9.29.09	12th	Solid	White Granite	1.9	1.9	1.9			1	.025
BG3	9.29.09	12th	Solid	Black Granite	<0.57	0.57	0.57				.025
M5	9.29.09	13th	Solid	White Marble	3.8	3.8	3.8			1	.025
						1.78	3.75	5.53	7.32		



<sup>4</sup> The first floor has a height of approximately twenty five feet above ground level.



## 5.0 Site Cleanup – Urban & Restec

Solid waste materials will be collected in 55 gallon drums and profiled. Hazardous waste must be tested and categorized for purposes of disposal. Restec will submit written evidence of approved testing (including copies of the actual chain-of-custody forms) and dispose of hazardous waste within 90 (day s) days following the completion of each phase of the project. Restec will submit written evidence that the disposal sites are approved for PCBs, lead and any other hazardous materials disposal by the USEPA and state or local regulatory agency(s). Uniform hazardous waste manifests prepared, signed and dated by an agent of the generator and the disposal site certifying the amount of hazardous materials delivered will be provided. The manifest must be provided to the Owner within twenty-five (25) working days after delivery.

**Bulk PCB remediation waste removal.** Dry bulk PCB waste will be removed as indicated in the general removal procedures immediately following this section. The cleanup process will incorporate the use of isopropyl alcohol.

- (1) No chlorinated solvents will be used.
- (2) All clean-up will be at ambient temp.
- (3) All processes will be either hand tools or mechanical in nature, with HEPA exhausted equipment to provide finish surfaces (See Bulk PCB Remediation Waste).
- (4) No external heat sources will be used for cleaning.
- (5) Solvent in the form of isopropyl alcohol will be used to clean surfaces. No liquid waste is anticipated as the solvents evaporate during the cleaning process, leaving only the residue accumulated on the cleaning rags. The cleaning rags and other wastes generated will be segregated, containerized and disposed of per § 761.61 PCB remediation waste and as described in the General Removal Procedures (below).
- (6) No solvent waste will be generated during the process. Bulk and particulate waste will be collected as indicated in the General Removal Procedures (below).

**Bulk PCB remediation waste** will be sent off-site for disposal at an authorized disposal site to be determined. Transport containers will comply with DOT Hazardous Materials Regulations (HMR) 49 CFR parts 171 through 180.

- (1) Dewatering: PCB waste will be dry and dewatering will not be needed.
- (2) Concentrations: Previous testing indicates PCB concentrations range from non-detect to a maximum of 189,000 ppm for caulking at metal to metal surfaces, primarily under windows.
  - a. Caulking waste from the first floor, which has a lower PCB concentration, ranging from non-detect to 61 ppm, will be segregated from caulking on upper floors.
  - b. 29 Sections of granite sheathing will be removed from the building as part of the renovation process. Previous testing indicates that the granite is slightly porous, having absorbed a concentration of approximately 5.57 ppm PCBs on upper floors, and < .79 ppm on the first floor<sup>5</sup>. Sections of granite sheathing scheduled for disposal will have PCB containing caulking removed; edges ground and wiped down with isopropyl alcohol prior to being containerized for disposal.
- (3) It is estimated that four waste streams, as follows, will be generated during the cleanup process:
  - a. Ground floor caulking;
  - b. second floor and above caulking;
  - c. granite slabs; and
  - d. cleaning rags / protective clothing waste.

Depending upon testing results undertaken as waste streams are generated, some waste streams may be combined or further segregated.

<sup>5</sup> Note the caulking materials used on the first floor appear different from those on upper floors.



- (4) The waste streams will be profiled by Restec to determine the appropriate disposal in accordance with Section 3004 of RCRA, and applicable state regulations covering PCB disposal (TSCA). See work plan.
- (5) It is estimated that there will be a total of 30 - 55-gallon steel drums of dry waste. Waste will be shipped off site every 90 days. At least fifteen days prior to shipping, Restec will test and manifest waste. Testing will be in accordance with EPA Extraction Method 3500B / 3540C or Method 3500B/3550B and chemical analysis in accordance with EPA Method 8082 in SW-846.

## 5.01 RESTEC GENERAL REMOVAL PROCEDURES

1. Remove the bulk of the sealant and backer rod by means of a utility knife
2. Scrape as much of the residual sealant off the substrate as possible
3. On the granite and marble panels, grind the +/- 1/4" bond line where the new sealant will be adhering to the stone with a mini grinder and diamond blade
4. Wipe the surface clean and free of dust and contaminants with isopropyl alcohol.
5. All metal will receive a good scrub with a scratch pad and wiped clean with isopropyl alcohol after existing sealant has been removed
6. Measures will be taken to ensure that the existing sealant will be contained to the swing stage during the removal process
7. While grinding, vacuums with HEPA filters will be attached to grinders to collect the dust
8. Employees will be wearing a combination of respirators, gloves, and Tyvek style suits during certain phases of the removal and prep.

## 5.02 REMOVAL GENERAL

### A. Bulk Removal of Sealant and Backer Rods Using Hand Tools:

- a. Employees will use Tyvek type suits, impermeable neoprene gloves and respirators with appropriate cartridges for the contaminants present.
- b. Personal monitoring will be conducted to characterize employees' exposure. Following personal exposure monitoring respiratory protection may be downgraded for this phase of the work.
- c. If multiple phases of work are conducted concurrently on a swing stage (i.e. bulk removal and grinding) all employees on that stage and or potentially affected stages will use PAPRs (full-face Powered Air Purifying Respirators).

### B. Detailed Surface Grinding of Exterior Finishes:

- a. Employees will, as required by OSHA and the Work Plan (WP), be monitored utilizing personal monitoring practices and this will be done to characterize employee exposures. Both air and skin exposure sampling will be conducted.
- b. Use PAPR respirators during this process
- c. Use of electric grinders equipped with shrouds and HEPA vacuums to control particulate release. No removal will be performed on days where the wind is likely to cause release of particulates from the swing stage.

### C. Surface Cleaning with alcohol.

- a. As required by OSHA and the WP personal monitoring will be conducted to characterize employees' exposure to PCB's and lead.
- b. Following personal exposure monitoring, respiratory protection maybe downgraded.
- c. Restec personnel will use NIOSH approved half-faced respirators for the set-up and teardown of the containment areas. Restec will use NIOSH approved PAPRs for the gross removal of caulking and sealants and any power tool usage.

- d. If joint work is conducted on a swing stage (i.e. grinding and solvent cleanup), all employees on that stage and or potentially affected stages will use PAPRs. Personnel air sampling will be conducted for lead and PCB exposure. The sampling will continue until a representative sampling has been completed for each month. Personal skin wipe sampling will also be conducted to determine PPE effectiveness.

#### **D. Swing Stage**

- a. Enclosure controls See WP 1.2.F COMPLIANCE AND INTENT. Restec will not be installing critical barriers on the windows, but will be installing them over areas that are subject to interior leakage within the removal area.
- b. Apply a continuous band of adhesive tape at the interface of the swing stage and building wall to control the escape of particulate from the work area.
- c. As needed, but not less than two times per day and at the end of the shift, HEPA Vacuum the swing stage enclosure.
- d. Restec will immediately repair/replace damaged polyethylene drop cloths as appropriate to avoid particulate release. Minor tears or pinholes will be repaired with duct tape.

#### **E. Entry and Exit Areas - Regulated Area**

- a. Access to work areas will be through a regulated area generally located at the entry to the swing stage.
- b. Regulated areas will be designated with danger tape and delineators and have polyethylene drop sheets. Restec will install signage on the caution tape designating the area as having "Overhead Work", PCB and lead Hazard. Restec will have personnel on the ground (chip chaser) monitoring the area underneath the work area as well as collecting and HEPA vacuuming any visible debris.
- c. Workers will decontaminate and change and store clothing within the regulated area. Restec will have a wash station located on the roof for decontamination at the completion of the shifts. The wash station will include first aid materials, water, and soap and disposal bags for disposal for the consumable PPE. The wash station shall include an area for the changing in and out of PPE. Restec will be installing engineering controls within the swing stage baskets. Restec will wrap the stage basket with 6 mil poly. Restec will add black "mesh-style" netting above the basket rails, supported by an appropriate framing. The mesh netting will serve the purpose of controlling emissions while not acting as a sail and therefore creating an unsafe condition for Restec personnel.
- d. Regulated areas will be used for equipment storage and temporary storage of waste materials.

#### **E Equipment Cleaning at the Completion of the Project**

- a. At the completion of the project all salvaged equipment will be cleaned and tested. Disposables including but not limited to razor knives, scrapers, etc. will be categorized, drummed and disposed of as PCB containing waste.
- b. Equipment will be cleaned and wipe tested. Testing will entail standard wipe test protocols as defined in 40 CFR 761.123 using a hexane solution. Analysis will be via EPA 8082. That equipment that cannot be adequately cleaned will be disposed of as PCB containing waste.



## 6.0 Cleanup Verification

**Attachment D** - Based upon testing results and the potential for fracturing granite sheets for the purposes of chip sampling, RGA recommends that the final determinations of "clean surfaces" be determined based upon surface wipe results. The sampling strategy will be based upon a sampling grid that can be extended from an EPA Sampling Document for grid sampling of soils in the field. It is a statistically valid sampling protocol (Field Manual for Grid Sampling of PCB Spill Sites to Verify Cleanup; EPA-560/5-85-026, August, 1985 & Wipe Sampling & EPA PCB Spill Cleanup Policy; April, 1991). It also introduces a technically random sampling scheme based upon a random number generator and assignment of the areas to be sampled with unique identifiers. Lastly, the results of wipe samples taken will be documented to the reporting limits of the method, which means that results will be reported down to ~0.25 ug/cm<sup>2</sup>. This should give EPA confidence in the actual values of the wipe samples well below the regulatory limits established in the regulation.

### 6.01 Replacement Caulking

The replacement caulking is a silicone based material known as SilPruf. It does not contain PCB's. Silicones are somewhat permeable and may reabsorb some residual PCB's. The amount of PCB's that would be reabsorbed would be dependent upon the amount (ppm) remaining within the substrates and the longevity of the caulking at that substrate. Assuming that the silicone caulking will remain 50+ years in-situ, there will be no change in exposure assessment for the building based upon current criteria.

## Attachment A

### Bulk Caulking Sampling Data Summary



TABLE 1 Bulk Caulking Sampling Data - See Appendix 1 Laboratory data and sample locations

Sample Number	Date	Floor	Description	PCB Concentration ppm	PCB Reporting Limit ppm	Arochlor Type
9081-BM 1	6.09.09	01ST	Black Granite	<5	0.025	
9081-BM 10	6.09.09	01ST	Black Granite	61	0.025	1
9081-BM 11	6.09.09	01ST	Black Granite	<10	0.025	
9081-BM 2	6.09.09	01ST	Black Granite	6.1	0.025	1
9081-BM 3	6.09.09	01ST	Black Granite	13	0.025	1
9081-BM 4	6.09.09	01ST	Black Granite	9.5	0.025	1
9081-BM 5	6.09.09	01ST	Black Granite	1.6	0.025	1
9081-BM 6	6.09.09	01ST	Black Granite	<10	0.025	
9081-BM 7	6.09.09	01ST	Black Granite	<25	0.025	
9081-BM 8	6.09.09	01ST	Black Granite	<25	0.025	
9081-BM 9	6.09.09	01ST	Black Granite	<10	0.025	
9081-WM 1	6.08.09	01ST	White Marble	8.4	0.025	1
9081-WM 10	6.08.09	01ST	White Marble	18	0.025	1
9081-WM 11	6.08.09	01ST	White Marble	12	0.025	1
9081-WM 2	6.08.09	01ST	White Marble	<50	0.025	
9081-WM 3	6.08.09	01ST	White Marble	<100	0.025	
9081-WM 4	6.08.09	01ST	White Marble	<50	0.025	
9081-WM 5	6.08.09	01ST	White Marble	3.1	0.025	1
9081-WM 6	6.08.09	01ST	White Marble	21	0.025	1
9081-WM 7	6.08.09	01ST	White Marble	<5	0.025	
9081-WM 8	6.08.09	01ST	White Marble	<5	0.025	
9081-WM 9	6.08.09	01ST	White Marble	22	0.025	1
9081-PCB-1	5.20.09	02nd	White Caulk	25	0.025	1
9081-PCB-2	5.20.098	02nd	Black sealant	12000	0.025	1
PCB-17	7.21.09	04th	Black Sealant	720	0.025	1
PCB-26	7.21.09	05th	Black Sealant - Panel	180000	0.025	1
PCB-39	7.21.09	05th	Black Sealant	2200	0.025	1
PCB-40	7.21.09	05th	Black Sealant	164	0.025	1, 2
100-PCB-10	6.05.09	07th	Caulk metal	38000	0.025	1
100-PCB-3	6.04.09	07th	Black Sealant	8800	0.025	1, 2
100-PCB-4	6.04.09	07th	Black Sealant	18000	0.025	1
100-PCB-9	6.05.09	07th	Caulk metal	9400	0.025	1
9081-CVM-2	6.09.09	07th	Continuous vertical Mullion	440	0.025	1
9081-CVM-3	6.09.09	07th	Continuous vertical Mullion	910	0.025	1
9081-CVM-5	6.09.09	07th	Continuous vertical Mullion	2700	0.025	1
9081-CVM-6	6.09.09	07th	Continuous vertical Mullion	5200	0.025	1, 2
9081-CVM-9	6.09.09	07th	Continuous vertical Mullion	270	0.025	1
9081-WGP-9	6.09.09	07th	White Granite Panel	18	0.025	1
PCB-37	7.27.09	08th	Black Sealant	13000	0.025	1

TABLE 1 Bulk Caulking Sampling Data - See Appendix 1 Laboratory data and sample locations

Sample Number	Date	Floor	Description	PCB Concentration ppm	PCB Reporting Limit ppm	Aroclor Type
PCB-38	7.27.09	08th	Black Sealant	500	0.025	1, 2
PCB-9	7.21.09	08th	Black Sealant	40	0.025	1
9081-CVM-1	6.09.05	09TH	Continuous vertical Mullion	230	0.025	1
9081-CVM-4	6.09.05	09TH	Continuous vertical Mullion	2500	0.025	1
9081-CVM-7	6.09.05	09TH	Continuous vertical Mullion	190	0.025	1
9081-CVM-8	6.09.05	09th	Continuous vertical Mullion	250	0.025	1
9081-WGP-2	6.09.05	09TH	White Granite Panel	23	0.025	1
9081-WGP-6	6.09.05	09TH	White Granite Panel	40	0.025	
PCB-25	7.21.09*	10th	Black Sealant - Metal panel	189000	0.025	1, 2
PCB-31	7.27.09	11th	Black Sealant	23000	0.025	1
PCB-32	7.27.09	11th	Black Sealant	84	0.025	1
PCB-33	7.27.09	11th	White Caulk/Black Caulk	28	0.025	1
PCB-34	7.27.09	11th	White Caulk/Black Caulk	21	0.025	1
PCB-35	7.27.09	11th	Black Sealant	4700	0.025	1, 2
PCB-36	7.27.09	11th	Black Sealant	88	0.025	1, 2
PCB-5	7.21.09*	12th	Gray Sealant	1300	0.025	1
100-PCB-5	6.04.09	13th	Caulk metal window	15000	0.025	1
100-PCB-6	6.04.09	13th	Caulk metal	15000	0.025	1
100-PCB-7	6.05.09	13th	Caulk metal	15000	0.025	1
100-PCB-8	6.05.09	13TH	Caulk metal	29000	0.025	1
9081-WGP-1	6.09.09	13TH	White Granite Panel	230	0.025	1
9081-WGP-3	6.09.09	13th	White Granite Panel	12	0.025	1
9081-WGP-4	6.09.09	13TH	White Granite Panel	37	0.025	1
9081-WGP-5	6.09.09	13TH	White Granite Panel	37	0.025	1
9081-WGP-7	6.09.09	13TH	White Granite Panel	54	0.025	1
9081-WGP-8	6.09.09	13TH	White Granite Panel	38	0.025	1
PCB-3	7.21.09	14th	Black Sealant	93	0.025	1
PCB-30	7.27.09	14th	Black Sealant	1000	0.025	1
100-PCB-1	6.04.09	UNK	Caulk	150	0.025	1
100-PCB-2	6.04.09	UNK	Caulk	14	0.025	1
Aroclor 1254 - 1						
Aroclor 1260 - 2						
Bulk sample analysis were completed using EPA method 8082						



## Attachment B

### Planter Soil Samples



100 California  
San Francisco, CA

Planter reference map

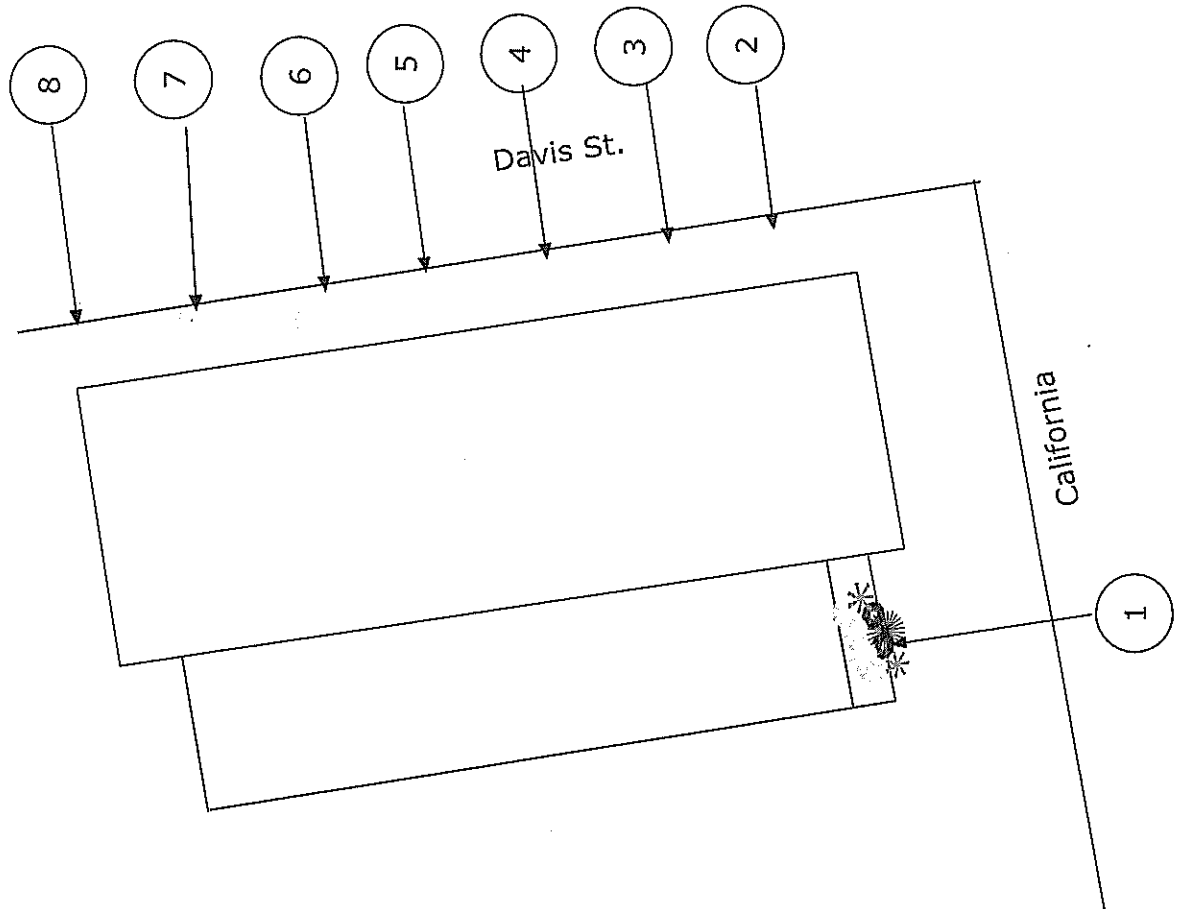





TABLE 2 Planter Soil Sampling Data - See Appendix 2 Laboratory data and sample locations


Location Reference	Sample Number	Date	Floor	Description	Concentration ppm	PCB Reporting Limit ppm	Aroclor Type
8	235926	12.7.09	Ground floor soil	East Planer	<0.05	0.025	
7	235927	12.7.09	Ground floor soil	East Planer	1.1	0.025	1
6	235928	12.7.09	Ground floor soil	East Planer	0.44	0.025	1, 2
5	235929	12.7.09	Ground floor soil	East Planer	<0.05	0.025	
4	235930	12.7.09	Ground floor soil	East Planer	0.31	0.025	1
3	235931	12.7.09	Ground floor soil	East Planer	0.32	0.025	1
2	235932	12.7.09	Ground floor soil	East Planer	0.29	0.025	1, 2
1	235933	12.7.09	Ground floor soil	South Planer	ND	0.025	
1	235934	12.7.09	Ground floor soil	South Planer	0.095	0.025	1
8	1 (100-6380-001A)	6.14.10	Ground floor soil	East Planer	1	0.05	1
7	2 (100-6380-002A)	6.14.10	Ground floor soil	East Planer	7	0.05	1
6	3 (100-6380-003A)	6.14.10	Ground floor soil	East Planer	19	0.05	1
5	4 (100-6380-004A)	6.14.10	Ground floor soil	East Planer	5.1	0.05	1
4	5 (100-6380-005A)	6.14.10	Ground floor soil	East Planer	2.4	0.05	1
3	6 (100-6380-006A)	6.14.10	Ground floor soil	East Planer	2.7	0.05	1
2	7 (100-6380-007A)	6.14.10	Ground floor soil	East Planer	5.6	0.05	1
1	8 (100-6380-008A)	6.14.10	Ground floor soil	South Planer	39	0.05	1
	Aroclor 1254 - 1						
	Aroclor 1260 - 2						
	Bulk sample analysis were completed using EPA method 8082						

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
RGA Environmental  1466 66th Street  Emeryville, CA 94608	Client Project ID: #BRES 21720		Date Sampled: 06/14/10			
			Date Received: 06/14/10			
	Client Contact: Bob Gils		Date Extracted: 06/14/10			
	Client P.O.:		Date Analyzed: 06/17/10-06/21/10			
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550B Analytical Method: SW8082 Work Order: 1006380						
Lab ID	1006380-001A	1006380-002A	1006380-003A	1006380-004A	Reporting Limit for DF =1	
Client ID	1	2	3	4		
Matrix	S	S	S	S		
DF	5	20	50	20	S	W
<b>Compound</b>	<b>Concentration</b>				mg/kg	ug/L
Aroclor1016	ND<0.25	ND<1.0	ND<2.5	ND<1.0	0.05	NA
Aroclor1221	ND<0.25	ND<1.0	ND<2.5	ND<1.0	0.05	NA
Aroclor1232	ND<0.25	ND<1.0	ND<2.5	ND<1.0	0.05	NA
Aroclor1242	ND<0.25	ND<1.0	ND<2.5	ND<1.0	0.05	NA
Aroclor1248	ND<0.25	ND<1.0	ND<2.5	ND<1.0	0.05	NA
Aroclor1254	1.0	7.0	19	5.1	0.05	NA
Aroclor1260	ND<0.25	ND<1.0	ND<2.5	ND<1.0	0.05	NA
PCBs, total	1.0	7.0	19	5.1	0.05	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	119	---	---	---		
Comments	h4	h4	h4	h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  %SS = Percent Recovery of Surrogate Standard DF = Dilution Factor  h4) sulfuric acid permanganate (EPA 3665) cleanup						

DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager



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RGA Environmental  1466 66th Street  Emeryville, CA 94608	Client Project ID: #BRES 21720		Date Sampled: 06/14/10			
			Date Received: 06/14/10			
	Client Contact: Bob Gils		Date Extracted: 06/14/10			
	Client P.O.:		Date Analyzed: 06/17/10-06/21/10			
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550B Analytical Method: SW8082 Work Order: 1006380						
Lab ID	1006380-005A	1006380-006A	1006380-007A	1006380-008A	Reporting Limit for DF=1	
Client ID	5	6	7	8		
Matrix	S	S	S	S		
DF	20	10	20	200	S	W
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<1.0	ND<0.50	ND<1.0	ND<10	0.05	NA
Aroclor1221	ND<1.0	ND<0.50	ND<1.0	ND<10	0.05	NA
Aroclor1232	ND<1.0	ND<0.50	ND<1.0	ND<10	0.05	NA
Aroclor1242	ND<1.0	ND<0.50	ND<1.0	ND<10	0.05	NA
Aroclor1248	ND<1.0	ND<0.50	ND<1.0	ND<10	0.05	NA
Aroclor1254	2.4	2.7	5.6	39	0.05	NA
Aroclor1260	ND<1.0	ND<0.50	ND<1.0	ND<10	0.05	NA
PCBs, total	2.4	2.7	5.6	39	0.05	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	109	105	120	---	#	
Comments	h4	h4	h4	h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  %SS = Percent Recovery of Surrogate Standard DF = Dilution Factor  h4) sulfuric acid permanganate (EPA 3665) cleanup						

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 Angela Rydelius, Lab Manager





**McC Campbell Analytical, Inc.**

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Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 1006380

ClientCode: RGAE

☐ WaterTrax☐ WriteOn☐ EDF☐ Excel☐ Fax☒ Email☐ HardCopy☐ ThirdParty☐ J-flag

## Report to:

Bob Gils  
RGA Environmental  
1466 66th Street  
Emeryville, CA 94608  
(510) 547-7771 FAX (510) 547-1983

Email: bob@rgaenv.com

cc:

PO:

ProjectNo: #BRES 21720

## Bill to:

Nick Hecht  
RGA Environmental  
1466 66th Street  
Emeryville, CA 94608  
nick.hecht@rgaenv.com

Requested TAT: 5 days

Date Received: 06/14/2010

Date Printed: 06/14/2010

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1006380-001	1	Soil	6/14/2010 6:30	<input type="checkbox"/>	A											
1006380-002	2	Soil	6/14/2010 6:30	<input type="checkbox"/>	A											
1006380-003	3	Soil	6/14/2010 6:30	<input type="checkbox"/>	A											
1006380-004	4	Soil	6/14/2010 6:30	<input type="checkbox"/>	A											
1006380-005	5	Soil	6/14/2010 6:30	<input type="checkbox"/>	A											
1006380-006	6	Soil	6/14/2010 6:30	<input type="checkbox"/>	A											
1006380-007	7	Soil	6/14/2010 6:30	<input type="checkbox"/>	A											
1006380-008	8	Soil	6/14/2010 6:30	<input type="checkbox"/>	A											

**Test Legend:**

1	8082A_PCB_S
6	
11	

2	
7	
12	

3	
8	

4	
9	

5	
10	

Prepared by: Samantha Arbuckle

## Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.

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 Telephone: 877-252-9262 Fax: 925-252-9269

**Sample Receipt Checklist**Client Name: **RGA Environmental**Date and Time Received: **6/14/2010 5:03:04 PM**Project Name: **#BRES 21720**Checklist completed and reviewed by: **Samantha Arbuckle**WorkOrder N°: **1006380** Matrix SoilCarrier: Rob Pringle (MAI Courier)**Chain of Custody (COC) Information**

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

**Sample Receipt Information**

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 6.2°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

=====

Client contacted:

Date contacted:

Contacted by:

Comments:



**McC Campbell Analytical, Inc.**

"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com

Telephone: 877-252-9262 Fax: 925-252-9269

**QC SUMMARY REPORT FOR SW8082**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 51171

WorkOrder 1006380

EPA Method SW8082		Extraction SW3550B							Spiked Sample ID: 1006084-040A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	0.30	0.15	NR	NR	NR	111	111	0	70 - 130	20	70 - 130	20
%SS:	92	0.050	109	114	3.84	109	108	1.07	70 - 130	20	70 - 130	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

**BATCH 51171 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1006380-001A	06/14/10 6:30 AM	06/14/10	06/17/10 10:13 AM	1006380-002A	06/14/10 6:30 AM	06/14/10	06/17/10 11:08 AM
1006380-003A	06/14/10 6:30 AM	06/14/10	06/17/10 1:55 PM	1006380-004A	06/14/10 6:30 AM	06/14/10	06/21/10 7:08 PM
1006380-005A	06/14/10 6:30 AM	06/14/10	06/17/10 8:26 PM	1006380-006A	06/14/10 6:30 AM	06/14/10	06/17/10 2:51 PM
1006380-007A	06/14/10 6:30 AM	06/14/10	06/17/10 3:47 PM	1006380-008A	06/14/10 6:30 AM	06/14/10	06/21/10 8:03 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery =  $100 * (MS - Sample) / (Amount Spiked)$ ; RPD =  $100 * (MS - MSD) / ((MS + MSD) / 2)$ .

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

## Attachment C

### Pilot study - PCB Containing Materials Collected as Part of the Cleanup Testing



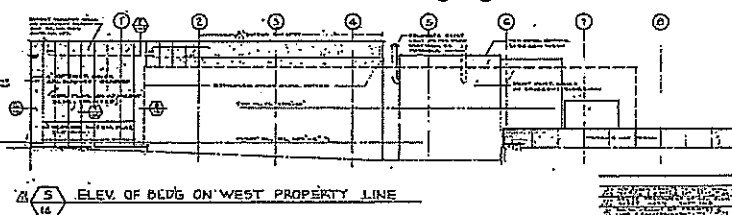
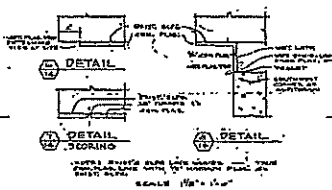
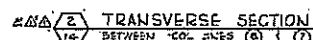
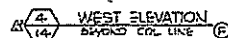


BGZ: PCB wipe on Black Granite: ND

BG3: PCB Bulk, Black Granite: ND < 0.57

- WGI: Wipe on white granite: ND  
1/17/2011

WGZ: Bulk white Granite 1.9 ppm



Scale: 1/4" = 1'-0"

**WELTON BECKET AND ASSOCIATES**  
ARCHITECTS AND ENGINEERS  
163 MAISON LANE  
SAN FRANCISCO CALIFORNIA

[illegible]

PCBG: Seam between Black Granite Panels: 410 ppm

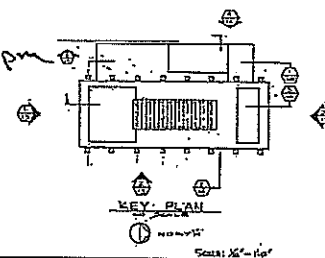
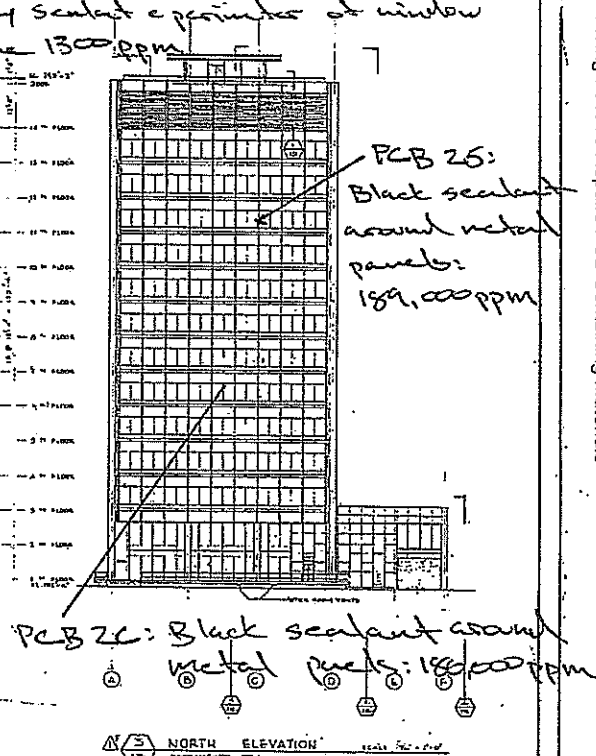
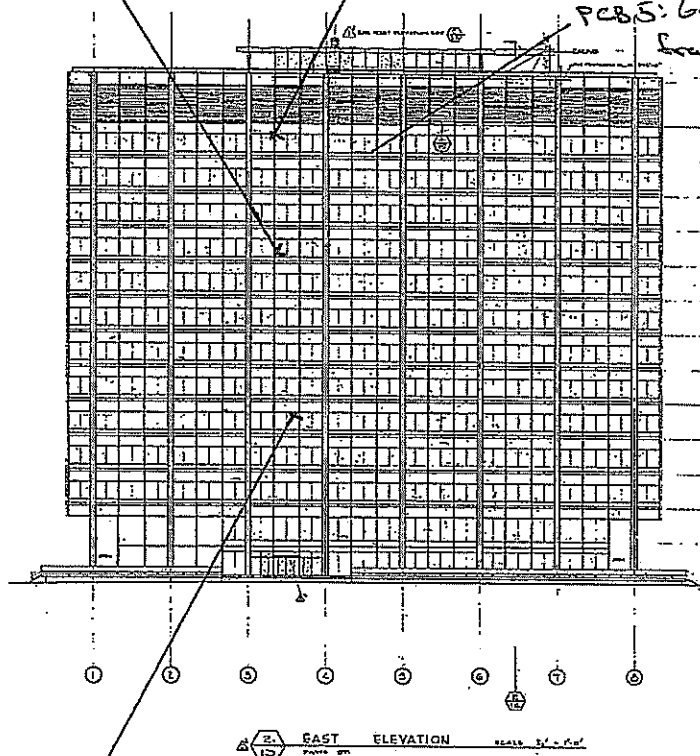
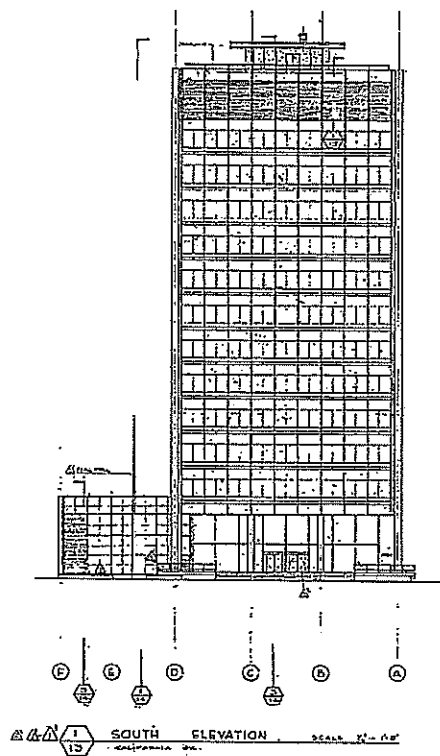
PCB 3: Seam between  
black granite panels: 93 ppm

PCB5: Gray sealant & perimeter of window frame 1300 ppm

✓ PCB 25:  
Black sealant  
around metal  
panels:  
189,000 ppm

PCB 26: Black sealant around metal pins: 18000 ppm

PCB 17: Black sealant; on metal column: 720ppm



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STRUCTURAL ENGINEERS  
**DUDLEY DEANE & ASSOCIATES**  
MECHANICAL & ELECTRICAL ENGINEERS  
SAN FRANCISCO CALIFORNIA

**BETHLEHEM PACIFIC COAST STEEL CORPORATION**  
OFFICE BUILDING  
SAN FRANCISCO CALIFORNIA

**WELTON BECKET AND ASSOCIATES**  
ARCHITECTS AND ENGINEERS  
111 WALDEN LANE,  
SAN FRANCISCO CALIFORNIA

### EXTERIOR ELEVATIONS

[illegible]



TABLE 3.0 Pilot Study Stone PCB Sampling Data - See appendices for laboratory data and sample locations

Sample ID	Date	Floor	Sample Type	Sample Description	Concentration ppm	Reporting limit ppm	SD	AVG	0.68	0.95	Aroclor Type
M1	9.29.09	01st	Solid	White Marble	<0.79	0.025					
WG6	9.29.09	07th	Solid	White Granite	2.1	0.025	2.1	2.1			1
BG6	9.29.09	07th	Solid	Black Granite	5.4	0.025	5.4	5.4			1,2
M3	9.29.09	07th	Solid	White Marble	<0.60	0.025	0.6	0.6			
BG5	9.29.09	11th	Solid	Black Granite	<0.50	0.025	0.5	0.5			
WG4	9.29.09	11th	Solid	White Granite	<0.91	0.025	0.91	0.91			
WG2	9.29.09	12th	Solid	White Granite	1.9	0.025	1.9	1.9			1
BG3	9.29.09	12th	Solid	Black Granite	<0.57	0.025	0.57	0.57			
M5	9.29.09	13th	Solid	White Marble	3.8	0.025	3.8	3.8			1
							1.78	3.76	5.54	7.32	

TABLE 3.1 Pilot Study Wipe PCB Sampling Data - See appendices for laboratory data and sample locations

Sample ID	Date	Floor	Sample Type	Sample Description	Concentration ug/ 100cc	MDL ug/100cc					Aroclor Type
MW1	9.29.09	01st	Wipe	White Marble	ND	0.25					
BG1	9.29.09	01st	Wipe	Black Granite	ND	0.25					
WG5	9.29.09	07th	Wipe	White Granite	ND	0.25					
M2	9.29.09	07th	Wipe	White Marble	ND	0.25					
BG4	9.29.09	11th	Wipe	Black Granite	ND	0.25					
MC1	9.29.09	11th	Wipe	Metal Column	ND	0.25					
WG3	9.29.09	11th	Wipe	White Granite	ND	0.25					
BG2	9.29.09	12th	Wipe	Black Granite	ND	0.25					
WG1	9.29.09	12th	Wipe	White Granite	ND	0.25					
M4	9.29.09	13th	Wipe	White Marble	ND	0.25					

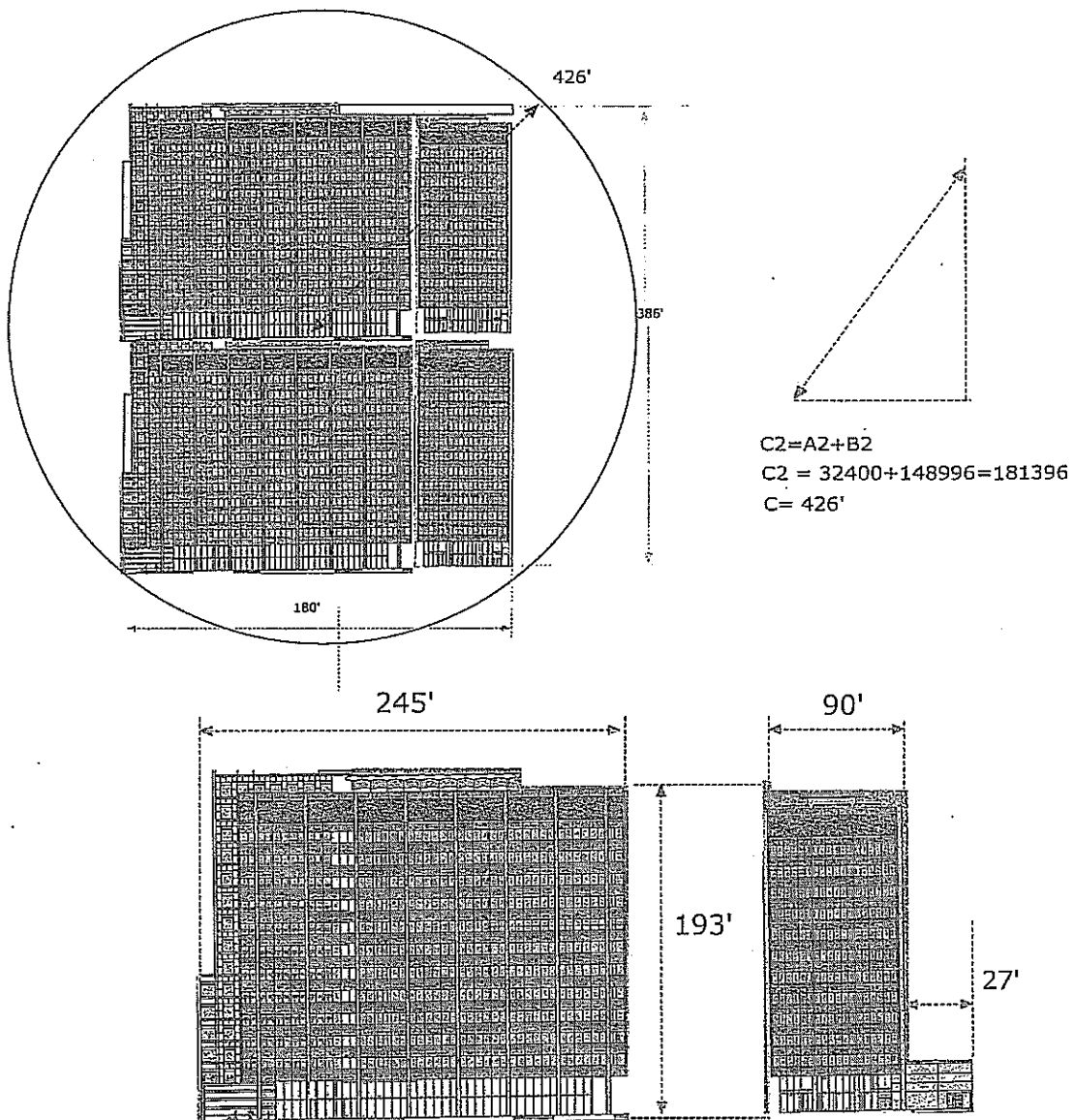
TABLE 3.2 Pilot Study Grout PCB Sampling Data - See appendices for laboratory data and sample locations

Sample ID	Date	Floor	Sample Type	Sample Description	Concentration ppm	Reporting limit ppm					Aroclor Type
GR3	9.29.09	13th	Solid	Grout	22	0.025					1
GR2	9.29.09	08th	Solid	Grout	23.8	0.025					1,2
GR1	9.29.09	11th	Solid	Grout	21	0.025					1
Aroclor 1254 - 1											
Aroclor 1260 - 2											
Bulk sample analysis were completed using EPA method 8082											
Wipe-100 cm2 sampled with a glass wool pad saturated with a hexane solution EPA method 8082											

## Attachment D

### Cleanup Verification - Grid Sampling EPA 560/5-86017

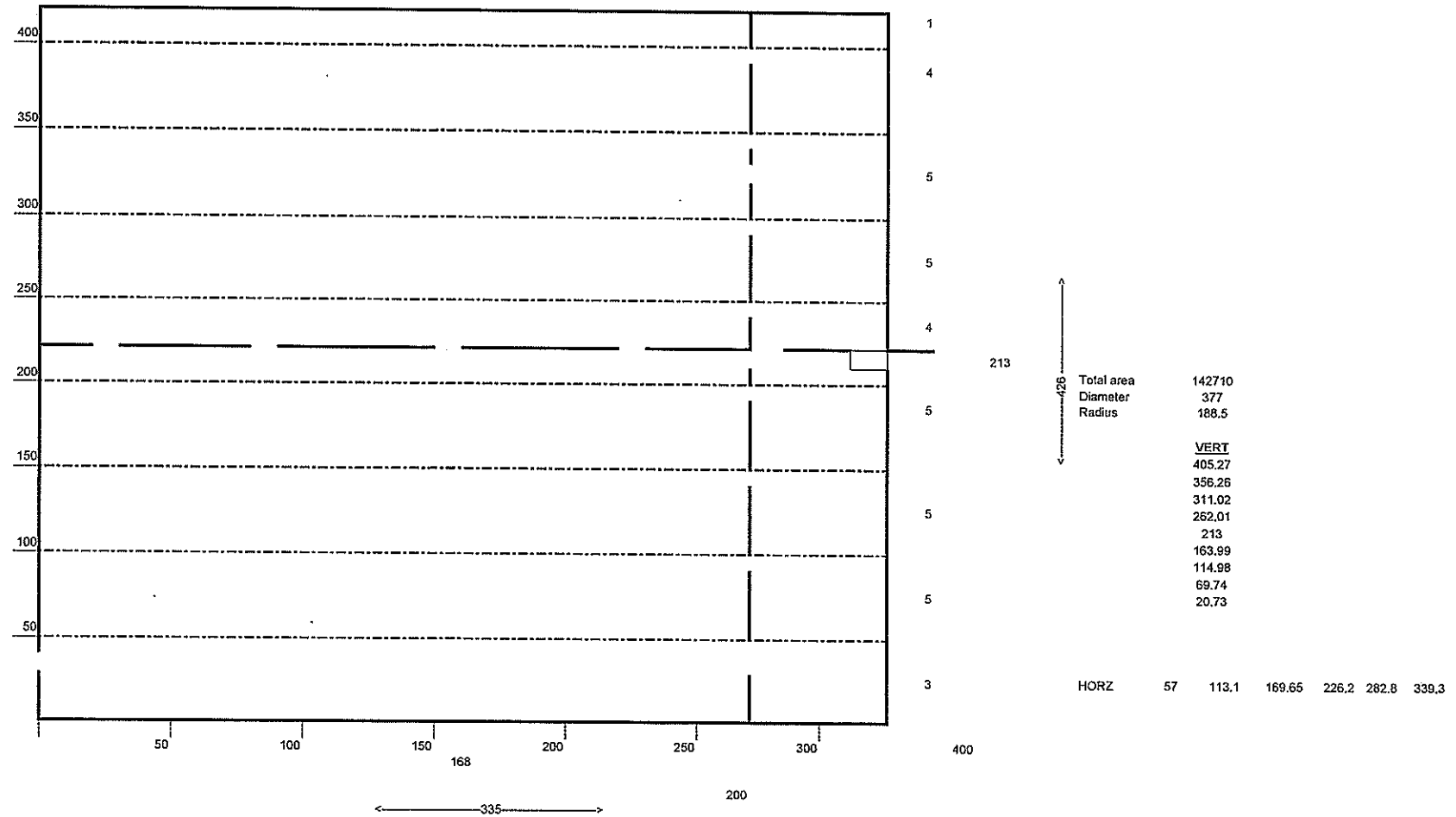
100 CALIFORNIA  
DRAWING  
SAMPLING PLAN





6.0 Cleanup Verification  
100 CALIFORNIA

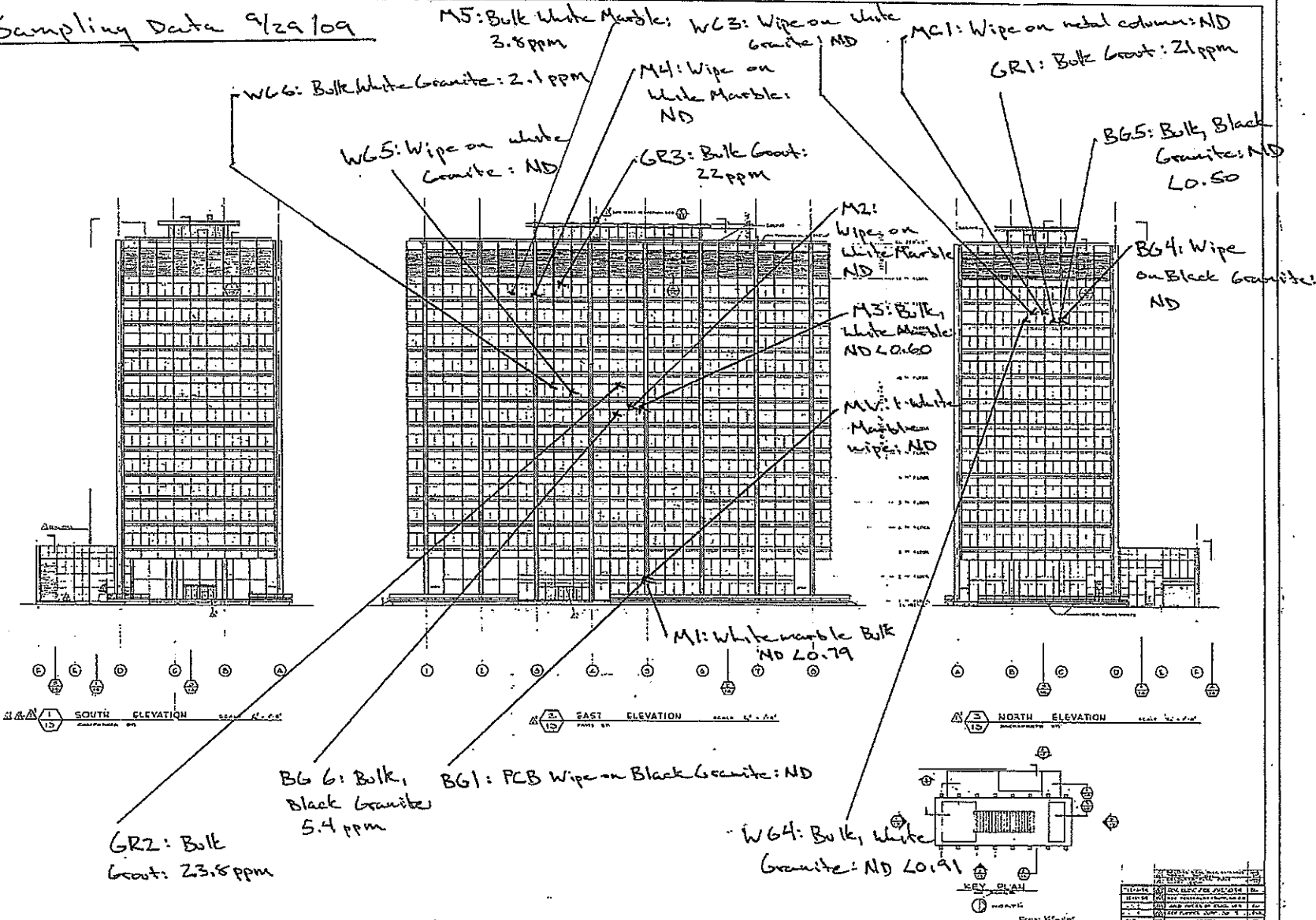
Grid Sampling of PCB's  
EPA 560/5-86-017  
May 1986



## Attachment E

### Sample Locations

Sampling Data 9/29/09



HAYES & LITTLE AND JOHN A. BLUME & ASSOCIATES STRUCTURAL ENGINEERS DUDLEY DEANE & ASSOCIATES MECHANICAL & ELECTRICAL ENGINEERS SAN FRANCISCO CALIFORNIA		BETHLEHEM PACIFIC COAST STEEL CORPORATION OFFICE BUILDING SAN FRANCISCO CALIFORNIA		WELTON BECKET AND ASSOCIATES ARCHITECTS AND ENGINEERS 103 WALDEN LANE SAN FRANCISCO CALIFORNIA		EXTERIOR ELEVATIONS		13-2	
---	--	--	--	---	--	---------------------	--	------	--

13-2



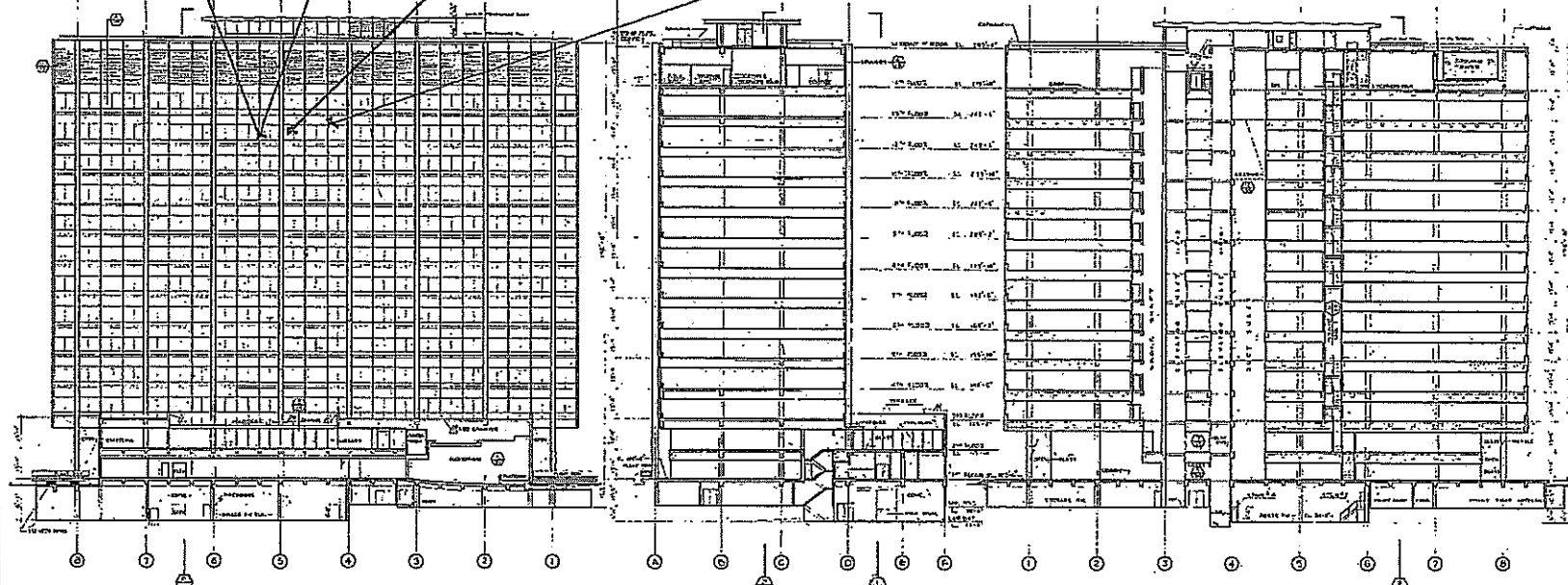
Sampling Data  
9/29/09

BG2: PCB wipe on Black Granite: ND

BG3: PCB Bulk Black Granite: ND < 0.51

WG1: Wipe on white granite: ND

WG2: Bulk white Granite 1.9 ppm



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BUDLEY DEANE & ASSOCIATES  
MECHANICAL & ELECTRICAL ENGINEERS  
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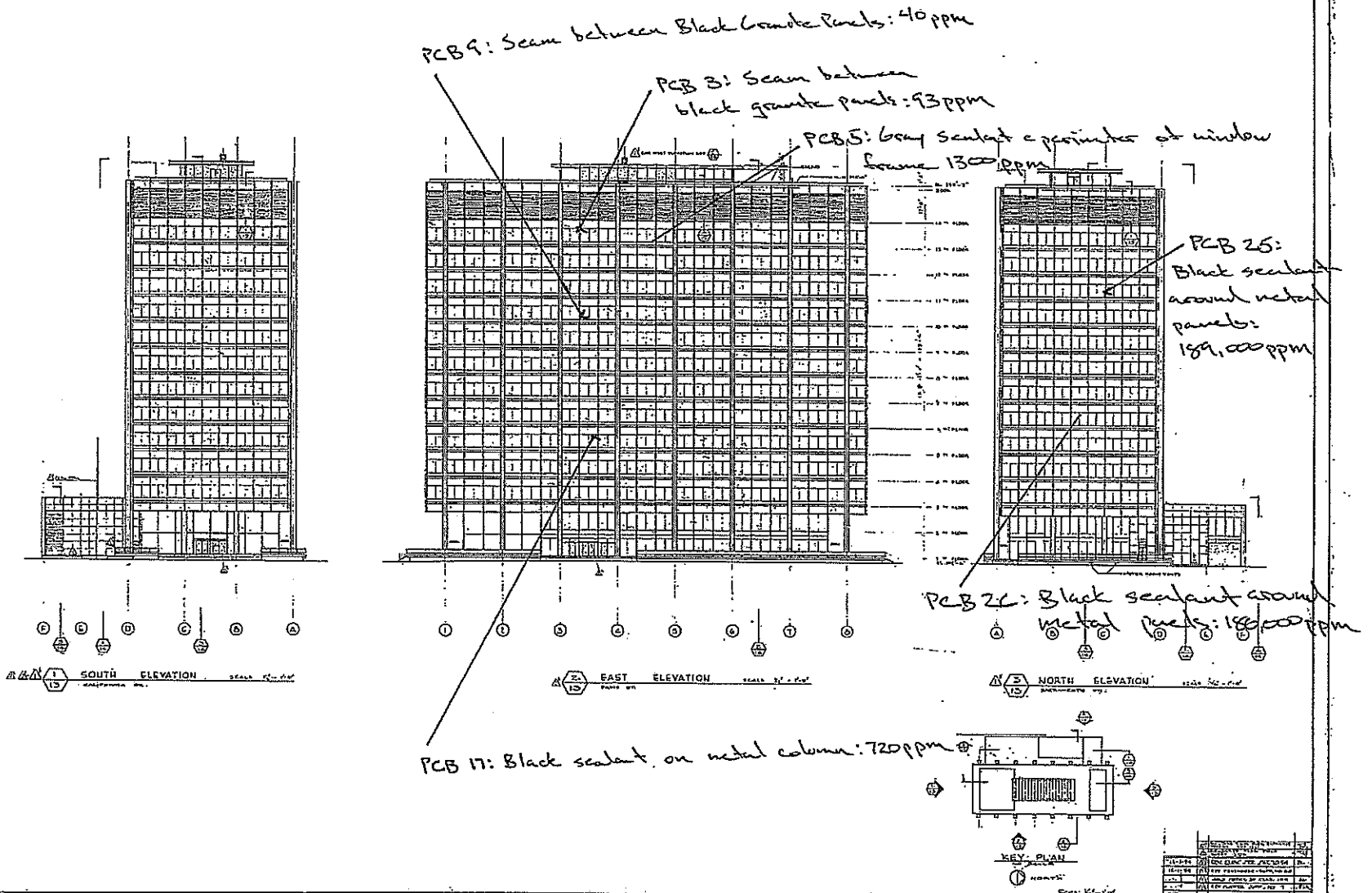
BETHLEHEM PACIFIC COAST STEEL CORPORATION  
OFFICE BUILDING  
SAN FRANCISCO CALIFORNIA

WELTON BECKETT AND ASSOCIATES  
ARCHITECTS AND ENGINEERS  
111 MAISON LANE  
SAN FRANCISCO CALIFORNIA

BUILDING SECTIONS  
& WEST ELEVATION

DATE	11-2-1999
BY	11-2-1999
CHECKED	11-2-1999
SCALE	1/4" = 1'-0"
14-2	

PCB Sampling: July Samples Archived Then Analyzed



HAYES & LITTLE AND JOHN A. BLUME & ASSOCIATES  
STRUCTURAL ENGINEERS  
DUDLEY BEANE & ASSOCIATES  
MECHANICAL & ELECTRICAL ENGINEERS  
SAN FRANCISCO CALIFORNIA

**BETHLEHEM PACIFIC COAST STEEL CORPORATION**  
OFFICE BUILDING  
SAN FRANCISCO CALIFORNIA

WELTON BECKET AND ASSOCIATES  
ARCHITECTS AND ENGINEERS  
152 WALDEN LANE,  
SAN FRANCISCO CALIFORNIA

EXTERIOR ELEVATIONS


DATE	NOV 1974
BY	WELTON BECKET
CHECKED BY	JOHN A. BLUME
APPROVED BY	JOHN A. BLUME
DATE	NOV 1974

13-2

## Attachment G

### Bulk Sampling Data



 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269	
RGA Environmental  1466 66th Street  Emeryville, CA 94608	Client Project ID: #BRES 21720; 100 California Street	Date Sampled: 07/21/09	
		Date Received: 07/22/09	
	Client Contact: Bob Gils	Date Reported: 07/30/09	
	Client P.O.:	Date Completed: 07/30/09	

**WorkOrder: 0907563**

July 30, 2009

Dear Bob:

Enclosed within are:

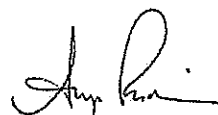
- 1) The results of the 9 analyzed samples from your project: **#BRES 21720; 100 California Street**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.


If you have any questions or concerns, please feel free to give me a call. Thank you for choosing


McC Campbell Analytical Laboratories for your analytical needs.


Best regards,



Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.


 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
RGA Environmental  1466 66th Street  Emeryville, CA 94608		Client Project ID: #BRES 21720; 100 California Street		Date Sampled: 07/21/09		
				Date Received: 07/22/09		
		Client Contact: Bob Gils		Date Extracted: 07/22/09		
		Client P.O.:		Date Analyzed 07/28/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b>						
Extraction Method: SW3550C		Analytical Method: SW8082		Work Order: 0907563		
Lab ID	0907563-003A	0907563-007A	0907563-011A		Reporting Limit for DF = 1	
Client ID	PCB-3	PCB-9	PCB-17			
Matrix	S	S	S			
DF	50	20	200		S	W
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<27	ND<12	ND<140		0.025	NA
Aroclor1221	ND<27	ND<12	ND<140		0.025	NA
Aroclor1232	ND<27	ND<12	ND<140		0.025	NA
Aroclor1242	ND<27	ND<12	ND<140		0.025	NA
Aroclor1248	ND<27	ND<12	ND<140		0.025	NA
Aroclor1254	93	40	720		0.025	NA
Aroclor1260	ND<27	ND<12	ND<140		0.025	NA
PCBs, total	93	40	720		0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	---	---	---			
Comments	h4	h4	h4			
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  h4) sulfuric acid permanganate (EPA 3665) cleanup						

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
RGA Environmental  1466 66th Street  Emeryville, CA 94608		Client Project ID: #BRES'21720; 100 California Street		Date Sampled: 07/21/09 Date Received: 07/22/09 Date Extracted: 07/22/09 Date Analyzed: 07/24/09-07/27/09		
		Client Contact: Bob Gils		Date Analyzed: 07/24/09-07/27/09		
		Client P.O.:				
<b>CAM / CCR 17 Metals*</b>						
Lab ID	0907563-001A	0907563-005A	0907563-009A	0907563-013A	Reporting Limit for DF =1; ND means not detected above the reporting limit	
Client ID	PCB-1	PCB-7	PCB-13	PCB-19		
Matrix	S	S	S	S		
Extraction Type	TOTAL	TOTAL	TOTAL	TOTAL		
					S	W
					mg/Kg	mg/L
<b>ICP-MS Metals, Concentration*</b>						
Analytical Method: 6020A		Extraction Method: SW3050B		Work Order: 0907563		
Dilution Factor	1	1	1	1	1	1
Antimony	ND<0.76	ND<0.94	ND	ND	0.5	NA
Arsenic	ND<0.76	ND<0.94	ND	ND	0.5	NA
Barium	ND<7.6	130	780	ND	5.0	NA
Beryllium	ND<0.76	ND<0.94	ND	ND	0.5	NA
Cadmium	0.47	1.4	ND	0.73	0.25	NA
Chromium	3.6	55	0.65	ND	0.5	NA
Cobalt	ND<0.76	2.4	ND	ND	0.5	NA
Copper	1.6	31	0.71	0.61	0.5	NA
Lead	4.5	94	2.4	16	0.5	NA
Mercury	ND<0.076	0.10	0.084	ND	0.05	NA
Molybdenum	ND<0.76	ND<0.94	ND	ND	0.5	NA
Nickel	2.0	16	ND	ND	0.5	NA
Selenium	ND<0.76	ND<0.94	ND	ND	0.5	NA
Silver	ND<0.76	ND<0.94	ND	ND	0.5	NA
Thallium	ND<0.76	ND<0.94	ND	ND	0.5	NA
Vanadium	ND<0.76	ND<0.94	ND	ND	0.5	NA
Zinc	ND<7.6	81	5.1	ND	5.0	NA
%SS:	104	144	141	136		
Comments	a7	c1,a7	c1	c1		
*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.  # means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.  TOTAL = acid digestion. WET = Waste Extraction Test (STLC). DI WET = Waste Extraction Test using de-ionized water.  a7) reporting limit raised due to insufficient sample amount c1) estimated value due to high surrogate recovery, caused by matrix interference.						

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
RGA Environmental		Client Project ID: #BRES 21720; 100		Date Sampled: 07/21/09		
1466 66th Street		California Street		Date Received 07/22/09		
Emeryville, CA 94608		Client Contact: Bob Gils		Date Extracted 07/22/09		
		Client P.O.:		Date Analyzed 07/24/09-07/27/09		
<b>CAM / CCR 17 Metals*</b>						
Lab ID	0907563-015A	0907563-017A			Reporting Limit for DF =1; ND means not detected above the reporting limit	
Client ID	PCB-21	PCB-23				
Matrix	S	S				
Extraction Type	TOTAL	TOTAL				
					S	W
					mg/Kg	mg/L
<b>ICP-MS Metals, Concentration*</b>						
Analytical Method: 6020A		Extraction Method: SW3050B		Work Order: 0907563		
Dilution Factor	1	1			1	1
Antimony	ND	ND<0.71			0.5	NA
Arsenic	ND	ND<0.71			0.5	NA
Barium	160	1100			5.0	NA
Beryllium	ND	ND<0.71			0.5	NA
Cadmium	1.3	ND<0.36			0.25	NA
Chromium	63	1.1			0.5	NA
Cobalt	2.7	ND<0.71			0.5	NA
Copper	54	1.9			0.5	NA
Lead	150	6.3			0.5	NA
Mercury	0.13	0.10			0.05	NA
Molybdenum	0.78	ND<0.71			0.5	NA
Nickel	16	0.97			0.5	NA
Selenium	ND	ND<0.71			0.5	NA
Silver	ND	ND<0.71			0.5	NA
Thallium	ND	ND<0.71			0.5	NA
Vanadium	0.70	0.73			0.5	NA
Zinc	110	12			5.0	NA
%SS:	121	140				
<b>Comments</b>		c1,a7				
<p>*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.</p> <p># means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.</p> <p>TOTAL = acid digestion.          WET = Waste Extraction Test (STLC).          DI WET = Waste Extraction Test using de-ionized water.</p> <p>a7) reporting limit raised due to insufficient sample amount          c1) estimated value due to high surrogate recovery, caused by matrix interference.</p>						



0907563


 <b>ENVIRONMENTAL</b>		<b>Environmental SAMPLE DATA SHEET</b>	
PM - S. Steiner steff@rgaenv.com fax: 510.899.7051	PM - K. Schroeter karin@rgaenv.com fax: 510.899.7053	PM - K. Pilgrim ken@rgaenv.com fax: 510.899.7053	PAGE <u>1</u> OF <u>5</u>
PM - B. Weisbrod brent.weisbrod@rgaenv.com fax: 510.899.7052	PM - T. Kattchee ted@rgaenv.com fax: 510.899.7070	PM - B. Gills bob@rgaenv.com fax: 510.899.7050	

Project Name/Address: 100 California St PO #: \_\_\_\_\_  
 RGA Project #: BRES 21720 Sampled By: Mike B Sampling Date: 7/21/09  
 Sample(s) Sent To ☐ EM Lab ☐ Other: Mc Campbell Turnaround Time: ☐ Rush ☐ 24-Hr ☒ Standard  
 FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM) Shipping Requirements: ☐ Priority ☐ Standard Overnight ☐ 2-Day  
 ADDITIONAL REPORT RECIPIENT(S): \_\_\_\_\_

Sample I.D.	Type	Sample Description				Sample Location	Time (min)	Flow Rate (LPM)	Volume (L) or Area (cm <sup>2</sup> )	Culture CAM17	Direct Exam PCBs	Hold	Analysis
		Air	Bulk	Swab	Tape Lift								
PCB-1						14" FI E side				X			
PCB-2						14" FI E side above down louvers (2)						X	
PCB-3						14" FI E side (3)					X		
<del>PCB-4</del>						<del>14" FI E side (4)</del>							
PCB-5						12" FI E side (6)						X	
<del>PCB-6</del>						<del>12" FI E side (7)</del>							
PCB-7						12" FI E side (8) (9)				X			

Relinquished By: Mike B Signature: \_\_\_\_\_ Date/Time: 7/21/09  
 Received By: Maria Venegas Signature: Maria Venegas Date/Time: 7/22/09 0800  
 Relinquished By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 ICE / I<sup>2</sup> / DO \_\_\_\_\_  
 GOOD CONDITION / APPROPRIATE CONTAINERS / PRESERVED IN LAB  
 HEAD SPACE ABSENT / VOAS / O & G / METALS / OTHER  
 DECHLORINATED IN LAB / PRESERVATION

REC'D SEALED & INTACT VIA Golden State ON

 <p><b>ENVIRONMENTAL</b></p> <p>PM - S. Steiner steff@rgaenv.com fax: 510.899.7051</p> <p>PM - K. Schroeter karin@rgaenv.com fax: 510.899.7063</p> <p>PM - K. Pilgrim ken@rgaenv.com fax: 510.899.7053</p> <p>PM - B. Weisbrod brent.weisbrod@rgaenv.com fax: 510.899.7062</p> <p>PM - T. Kattchee tedd@rgaenv.com fax: 510.899.7070</p> <p>PM - B. Gils bob@rgaenv.com fax: 510.899.7060</p>	<p style="text-align: center;"><b>Environmental SAMPLE DATA SHEET</b></p> <p style="text-align: right;">PAGE <u>2</u> OF <u>5</u></p>
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Project Name/Address: 100 California Street PO #: \_\_\_\_\_

RGA Project #: BRES21720 Sampled By: \_\_\_\_\_ Sampling Date: 7-21-09

Sample(s) Sent To ☐ EM Lab ☒ Other: McCampbell Turnaround Time: ☐ Rush ☐ 24-Hr ☒ Standard

**FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)** Shipping Requirements: ☐ Priority ☐ Standard Overnight ☐ 2-Day

**ADDITIONAL REPORT RECIPIENT(S):** \_\_\_\_\_

Sample I.D.	Type	Sample Description				Sample Location	Time (min)	Flow Rate (LPM)	Volume (L) or Area (cm <sup>2</sup> )	Culture (AM17)	Direct from PCBs	HOLD	Analysis
		Air	Bulk	Swab	Tape Lift								
PCB-8						8" FI E side (1)						X	
PCB-9						8" FI E side (3)					X		
<del>PCB-10</del>						<del>8" FI E side (1)</del>							
<del>PCB-11</del>						<del>8" FI E side (1)</del>							
PCB-12						4" FI E side (1)						X	
PCB-13						4" FI E side (3)				X			
<del>PCB-14</del>						<del>4" FI E side (1)</del>							

Relinquished By: Mike B Signature: [Signature] Date/Time: 7/21/09

Received By: R Painter Signature: [Signature] Date/Time: 7/21/09

Relinquished By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: Maria Venegas Signature: [Signature] Date/Time: 7/22/09 0800





PM - S. Steiner  
steff@rgaenv.com  
fax: 510.899.7051

PM - K. Schroeter  
karin@rgaenv.com  
fax: 510.899.7063

PM - K. Pilgrim  
ken@rgaenv.com  
fax: 510.899.7053

PM - B. Weisbrod  
brent.weisbrod@rgaenv.com  
fax: 510.899.7062

PM - T. Kattchee  
tadd@rgaenv.com  
fax: 510.899.7070

PM - B. Gils  
bob@rgaenv.com  
fax: 510.899.7060

# Environmental SAMPLE DATA SHEET

PAGE 3 OF 5

Project Name/Address: 100 California Street

PO #: \_\_\_\_\_

RGA Project #: BLES21720

Sampled By: MB

Sampling Date: \_\_\_\_\_

Sample(s) Sent To

☐ EM Lab

☒ Other: McCampbell

Turnaround Time: Standard

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

Shipping Requirements: Priority Standard Overnight 2-Day

ADDITIONAL REPORT RECIPIENT(S): \_\_\_\_\_

Sample I.D.	Type	Sample Description				Sample Location	Time (min)	Flow Rate (LPM)	Volume (L) or Area (m <sup>2</sup> )	Culture CAM17	Direct Exam PCBs	HOLD	Analysis
		Air	Bulk	Swab	Tape Lift								
<del>PCB-15</del>						<del>11th Fl E side (9)</del>							
PCB-16						4th Fl E side (9)						X	
PCB-17						4th Fl E side (10)					X		
PCB-18						12th Fl E side (10)						X	
PCB-19						14th Fl N side (2)				X			
PCB-20						14th Fl N side (10)						X	
PCB-21						16th Fl N side (9)				X			

Relinquished By: MB

Signature: \_\_\_\_\_

Date/Time: 7/21/09

Received By: RP

Signature: \_\_\_\_\_

Date/Time: 7/21/09

Relinquished By: \_\_\_\_\_


Signature: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Received By: Maria Venegas

Signature: \_\_\_\_\_

Date/Time: 7/22/09 0800

 <p><b>ENVIRONMENTAL</b></p> <p>PM - S. Steiner steff@rgaenv.com fax: 510.899.7051</p> <p>PM - K. Schroeter karin@rgaenv.com fax: 510.899.7053</p> <p>PM - K. Pilgrim ken@rgaenv.com fax: 510.899.7053</p> <p>PM - B. Weisbrod brent.weisbrod@rgaenv.com fax: 510.899.7052</p> <p>PM - T. Kattchee tedd@rgaenv.com fax: 510.899.7070</p> <p>PM - B. Gils bob@rgaenv.com fax: 510.899.7050</p>	<h2 style="text-align: center;">Environmental SAMPLE DATA SHEET</h2> <p style="text-align: right;">PAGE <u>4</u> OF <u>5</u></p>
--	--

Project Name/Address: 100 California Street PO #: \_\_\_\_\_

RGA Project #: BRES21720 Sampled By: MTB Sampling Date: 7/21/09

Sample(s) Sent To ☐ EM Lab ☒ Other: McCambell Turnaround Time: Standard Rush ☐ 24-Hr ☐ Standard ☒

**FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)** Shipping Requirements: Priority Standard Overnight 2-Day

**ADDITIONAL REPORT RECIPIENT(S):** \_\_\_\_\_

Sample I.D.	Type	Sample Description				Sample Location	Time (min)	Flow Rate (LPM)	Volume (L) or Area (cm <sup>2</sup> )	Culture CAM17	Direct-Exam PCBs	HOLD	Analysis
		Air	Bulk	Swab	Tape Lift								
PCB-22						10th Fl N side (1)						X	
PCB-23						10th Fl N side (3)				X			
<del>PCB-24</del>						<del>10th Fl N side (2)</del>							
PCB-25						10th Fl N side (4)(11)						X	
PCB-26						5th Fl N side (11)						X	
PCB-27						5th Fl N side (9)						X	
<del>PCB-28</del>						<del>5th Fl N side (8)</del>							

Relinquished By: MTB Signature: [Signature] Date/Time: 7/21/09

Received By: LPainter Signature: [Signature] Date/Time: 7/21/09

Relinquished By: Maria Venegas Signature: [Signature] Date/Time: 7/22/09 0800





PM - S. Steiner  
steff@rgaenv.com  
fax: 510.899.7051

PM - K. Schroeter  
karin@rgaenv.com  
fax: 510.899.7053

PM - K. Pilgrim  
ken@rgaenv.com  
fax: 510.899.7053

PM - B. Weisbrod  
brent.weisbrod@rgaenv.com  
fax: 510.899.7062

PM - T. Kattchee  
tedd@rgaenv.com  
fax: 510.899.7070

PM - B. Gils  
bob@rgaenv.com  
fax: 510.899.7060

# Environmental SAMPLE DATA SHEET

PAGE 5 OF 5

Project Name/Address: 100 California Street

PO #:

RGA Project #: BRES21720

Sampled By:

Sampling Date:

Sample(s) Sent To

☐ EM Lab

☐ Other:

☐

Turnaround Time: ☐ Rush ☐ 24-Hr ☐ Standard

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

Shipping Requirements: ☐ Priority ☐ Standard Overnight ☐ 2-Day

ADDITIONAL REPORT RECIPIENT(S):

Sample I.D.	Type	Sample Description				Sample Location	Time (min)	Flow Rate (LPM)	Volume (L) or Area (cm <sup>2</sup> )	Culture	Direct Exam	Analysis
		Air	Bulk	Swab	Tape Lift							
PCB-29						3rd Fl N side (11)						

Relinquished By:

W. L. S.

Signature:

[Signature]

Date/Time:

7/21/09

Received By:

R. Panter

Signature:

[Signature]

Date/Time:

7/21/09

Relinquished By:

Maria Venegas

Signature:

[Signature]

Date/Time:

7/22/09 0800

	<b>McCampbell Analytical, Inc.</b> "When Quality Counts"	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 927-252-9262 Fax: 925-252-9269

## WORK ORDER SUMMARY

Client Name: RGA ENVIRONMENTAL  
 Project: #BRES 21720; 100 California Street  
 Comments:

QC Level: LEVEL2  
 Client Contact: Bob Gils  
 Contact's Email: bob@rgaenv.com

Work Order: 0907563  
 Date Received: 07/22/09

☐ Write On   
 ☐ EEF   
 ☐ Excel   
 ☐ Fax   
☒ Email   
☐ Hard Copy   
☐ Third Party   
☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	Sub Out
0907563-001A	PCB-1	Solid	EPA 8082 (PCB Only)	- CAM-17 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-002A	PCB-2	Solid	EPA 8082 (PCB Only)	ARCHIVE 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-003A	PCB-3	Solid	EPA 8082 (PCB Only)	PCB 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-004A	PCB-5	Solid	EPA 8082 (PCB Only)	ARCHIVE 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-005A	PCB-7	Solid	EPA 8082 (PCB Only)	CAM-17 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-006A	PCB-8	Solid	EPA 8082 (PCB Only)	ARCHIVE 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-007A	PCB-9	Solid	EPA 8082 (PCB Only)	PCB 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-008A	PCB-12	Solid	EPA 8082 (PCB Only)	ARCHIVE 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-009A	PCB-13	Solid	EPA 8082 (PCB Only)	CAM-17 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-010A	PCB-16	Solid	EPA 8082 (PCB Only)	ARCHIVE 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-011A	PCB-17	Solid	EPA 8082 (PCB Only)	PCB 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-012A	PCB-18	Solid	EPA 8082 (PCB Only)	ARCHIVE 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-013A	PCB-19	Solid	EPA 8082 (PCB Only)	CAM-17 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-014A	PCB-20	Solid	EPA 8082 (PCB Only)	ARCHIVE 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-015A	PCB-21	Solid	EPA 8082 (PCB Only)	CAM-17 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-016A	PCB-22	Solid	EPA 8082 (PCB Only)	ARCHIVE 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-017A	PCB-23	Solid	EPA 8082 (PCB Only)	CAM-17 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-018A	PCB-25	Solid	EPA 8082 (PCB Only)	ARCHIVE 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	

## Bottle Legend:

Bag \*

Change Assessment Robert E. Gils Robert E. Gils 7-22-09

Page 1 of 2


**McC Campbell Analytical, Inc.**

"When Quality Counts"

 1554 Willow Pass Road, Pinburg, CA 94563-1701  
 Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
 Telephone: 925-252-9262 Fax: 925-252-9269

**WORK ORDER SUMMARY**

 Client Name: RGA ENVIRONMENTAL  
 Project: #BRES 21720; 100 California Street  
 Comments:

 QC Level: LEVEL 2  
 Client Contact: Bob Gils  
 Contact's Email: bob@rgacnv.com

 Work Order: 0907563  
 Date Received: 07/22/09

☐ Write On ☐ EDF ☐ Excel ☐ Fax ☒ Email ☐ Hard Copy ☐ Third Party ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	Sub Out
0907563-019A	PCB-26	Solid	EPA 8082 (PCB Only)	ARCHIVE 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-020A	PCB-27	Solid	EPA 8082 (PCB Only)	ARCHIVE	Bag	7/21/2009	5 days		<input type="checkbox"/>	
0907563-021A	PCB-29	Solid	EPA 8082 (PCB Only)	ARCHIVE 1	Bag	7/21/2009	5 days		<input type="checkbox"/>	

Change Assessment: Robert E Gils Robert E AG 7-22-09

Bottle Legend:

Bag =

Page 2 of 2

**McC Campbell Analytical, Inc.**

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0907563

ClientCode: RGAE

☐ WriteOn☐ EDF☐ Excel☐ Fax☒ Email☐ HardCopy☐ ThirdParty☐ J-flag

## Report to:

Bob Gils  
RGA Environmental  
1466 66th Street  
Emeryville, CA 94608  
(510) 547-7771 FAX (510) 547-1983

Email: bob@rgaenv.com

cc:

PO:

ProjectNo: #BRES 21720; 100 California Street

## Bill to:

Andrea Peacock  
RGA Environmental  
1466 66th Street  
Emeryville, CA 94608  
invoices@rgaenv.com

Requested TAT: 5 days

Date Received: 07/22/2009

Date Printed: 07/22/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0907563-001	PCB-1	Solid	7/21/2009	<input type="checkbox"/>		A										
0907563-003	PCB-3	Solid	7/21/2009	<input type="checkbox"/>	A											
0907563-005	PCB-7	Solid	7/21/2009	<input type="checkbox"/>		A										
0907563-007	PCB-9	Solid	7/21/2009	<input type="checkbox"/>	A											
0907563-009	PCB-13	Solid	7/21/2009	<input type="checkbox"/>		A										
0907563-011	PCB-17	Solid	7/21/2009	<input type="checkbox"/>	A											
0907563-013	PCB-19	Solid	7/21/2009	<input type="checkbox"/>		A										
0907563-015	PCB-21	Solid	7/21/2009	<input type="checkbox"/>		A										
0907563-017	PCB-23	Solid	7/21/2009	<input type="checkbox"/>		A										

## Test Legend:

1	8082A_PCB_Solid
6	
11	

2	CAM17MS_Solid
7	
12	

3	
8	

4	
9	

5	
10	

Prepared by: Maria Venegas

Comments: Changes made 7/22/09 3:30pm

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



**McC Campbell Analytical, Inc.**

"When Quality Counts"

 1534 Willow Pass Road, Pittsburg, CA 94565-1701  
 Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
 Telephone: 877-252-9262 Fax: 925-252-9269
**Sample Receipt Checklist**Client Name: **RGA Environmental**Date and Time Received: **07/22/09 8:30:45 AM**Project Name: **#BRES 21720; 100 California Street**Checklist completed and reviewed by: **Maria Venegas**WorkOrder N°: **0907563**Matrix SolidCarrier: Golden State Overnight**Chain of Custody (COC) Information**

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

**Sample Receipt Information**

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp:		NA <input checked="" type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

\* NOTE: If the "No" box is checked, see comments below.

=====

Client contacted:

Date contacted:

Contacted by:

Comments:

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Telephone: 877-252-9262 Fax: 925-252-9269

**QC SUMMARY REPORT FOR SW8082**

W.O. Sample Matrix: Solid

QC Matrix: Soil

BatchID: 44694

WorkOrder 0907563

EPA Method SW8082		Extraction SW3550C							Spiked Sample ID: 0907605-004A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	ND	0.075	130	121	6.93	111	114	2.24	70 - 130	20	70 - 130	20
%SS:	118	0.050	115	114	0.517	120	121	0.812	70 - 130	20	70 - 130	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

**BATCH 44694 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0907563-003A	07/21/09	07/22/09	07/28/09 1:25 AM	0907563-007A	07/21/09	07/22/09	07/28/09 2:20 AM
0907563-011A	07/21/09	07/22/09	07/28/09 3:15 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$$

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

  
QA/QC Officer

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Telephone: 877-252-9262 Fax: 925-252-9269

**QC SUMMARY REPORT FOR 6020A**

W.O. Sample Matrix: Solid

QC Matrix: Soil

WorkOrder 0907563

EPA Method 6020A		Extraction SW3050B				BatchID: 44638			Spiked Sample ID: 0907482-005A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Antimony	0.99	50	100	99.7	0.471	10	96.5	95.9	0.686	75 - 125	20	75 - 125	20
Arsenic	17	50	93.4	93.7	0.300	10	98.7	99.2	0.526	75 - 125	20	75 - 125	20
Barium	110	500	88.9	88	0.736	100	85.4	84.9	0.634	75 - 125	20	75 - 125	20
Beryllium	0.77	50	99.5	100	0.788	10	103	102	0.585	75 - 125	20	75 - 125	20
Cadmium	ND	50	100	100	0	10	98.2	96.2	2.05	75 - 125	20	75 - 125	20
Chromium	59	50	NR	NR	NR	10	96.4	95.9	0.562	75 - 125	20	75 - 125	20
Cobalt	13	50	86.2	86.4	0.230	10	97.9	95.5	2.52	75 - 125	20	75 - 125	20
Copper	51	50	NR	NR	NR	10	100	101	1.13	75 - 125	20	75 - 125	20
Lead	15	50	93.7	93.4	0.308	10	95.9	95.4	0.429	75 - 125	20	75 - 125	20
Mercury	ND	1.25	83.9	84.1	0.278	0.25	79.7	81.4	2.13	75 - 125	20	75 - 125	20
Molybdenum	0.87	50	96.6	96.4	0.244	10	93.9	93.6	0.235	75 - 125	20	75 - 125	20
Nickel	56	50	NR	NR	NR	10	97.3	97.3	0	75 - 125	20	75 - 125	20
Selenium	0.72	50	96.3	102	5.20	10	100	99.2	0.873	75 - 125	20	75 - 125	20
Silver	ND	50	122	122	0	10	120	120	0	75 - 125	20	75 - 125	20
Thallium	ND	50	93.9	93.4	0.595	10	91.7	91.2	0.612	75 - 125	20	75 - 125	20
Vanadium	68	50	NR	NR	NR	10	97.2	97.3	0.0926	75 - 125	20	75 - 125	20
Zinc	110	500	97.5	96.6	0.777	100	98.2	99	0.720	75 - 125	20	75 - 125	20
%SS:	109	250	92	91	0.481	250	97	96	1.24	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

**BATCH 44638 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0907563-001A	07/21/09	07/22/09	07/24/09 7:12 PM	0907563-005A	07/21/09	07/22/09	07/24/09 7:20 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$$

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

  
QA/QC Officer

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Telephone: 877-252-9262 Fax: 925-252-9269

**QC SUMMARY REPORT FOR 6020A**

W.O. Sample Matrix: Solid

QC Matrix: Soil

WorkOrder 0907563

EPA Method 6020A		Extraction SW3050B				BatchID: 44676				Spiked Sample ID: 0907539-007A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Antimony	1.2	50	116	104	11.0	10	96.9	95.4	1.57	75 - 125	20	75 - 125	20
Arsenic	10	50	109	97.2	9.83	10	95.9	95.6	0.227	75 - 125	20	75 - 125	20
Barium	170	500	102	88.5	10.8	100	85.4	84.4	1.24	75 - 125	20	75 - 125	20
Beryllium	ND	50	109	98.6	9.75	10	105	104	0.863	75 - 125	20	75 - 125	20
Cadmium	ND	50	112	101	10.6	10	98.4	96.8	1.63	75 - 125	20	75 - 125	20
Chromium	27	50	102	86.5	10.2	10	95.9	95.3	0.575	75 - 125	20	75 - 125	20
Cobalt	8.1	50	102	91.5	9.64	10	96.8	96.3	0.528	75 - 125	20	75 - 125	20
Copper	20	50	107	92.8	9.94	10	97.7	97.8	0.0808	75 - 125	20	75 - 125	20
Lead	9.1	50	109	95.4	11.1	10	96.8	95.9	0.934	75 - 125	20	75 - 125	20
Mercury	ND	1.25	110	98.7	10.8	0.25	80.6	80.4	0.199	75 - 125	20	75 - 125	20
Molybdenum	0.89	50	109	97.8	10.6	10	93.2	92.9	0.387	75 - 125	20	75 - 125	20
Nickel	20	50	106	91.9	10.1	10	95.8	96.2	0.375	75 - 125	20	75 - 125	20
Selenium	ND	50	118	103	13.5	10	99	99.2	0.283	75 - 125	20	75 - 125	20
Silver	ND	50	114	104	9.49	10	122	119	2.33	75 - 125	20	75 - 125	20
Thallium	ND	50	115	101	12.7	10	92.3	90.7	1.76	75 - 125	20	75 - 125	20
Vanadium	43	50	98.8	79.8	10.9	10	96.7	96	0.727	75 - 125	20	75 - 125	20
Zinc	59	500	110	97.8	10.3	100	98.7	97.8	0.947	75 - 125	20	75 - 125	20
%SS:	132	250	117	104	11.3	250	96	95	1.39	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

**BATCH 44676 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0907563-009A	07/21/09	07/22/09	07/27/09 5:47 PM	0907563-013A	07/21/09	07/22/09	07/27/09 5:56 PM
0907563-015A	07/21/09	07/22/09	07/24/09 6:49 PM	0907563-015A	07/21/09	07/22/09	07/24/09 6:56 PM
0907563-017A	07/21/09	07/22/09	07/24/09 7:27 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.


% Recovery =  $100 * (MS - Sample) / (Amount Spiked)$ ; RPD =  $100 * (MS - MSD) / ((MS + MSD) / 2)$ .

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269	
RGA Environmental  1466 66th Street  Emeryville, CA 94608	Client Project ID: #BRES 21720; Sealant Replacement, 100 California		Date Sampled: 07/27/09
			Date Received: 07/27/09
	Client Contact: Bob Gils		Date Reported: 08/04/09
	Client P.O.:		Date Completed: 08/04/09

**WorkOrder: 0907685**

August 04, 2009

Dear Bob:


Enclosed within are:

- 1) The results of the 11 analyzed samples from your project: **#BRES 21720; Sealant Replacement**,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.


All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McC Campbell Analytical Laboratories for your analytical needs.


Best regards,




Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
RGA Environmental  1466 66th Street  Emeryville, CA 94608		Client Project ID: #BRES 21720; Sealant Replacement, 100 California		Date Sampled: 07/27/09		
				Date Received: 07/27/09		
		Client Contact: Bob Gils		Date Extracted: 07/27/09		
		Client P.O.:		Date Analyzed 07/31/09-08/03/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0907685						
Lab ID	0907685-001A	0907685-002A	0907685-003A	0907685-004A	Reporting Limit for DF =1	
Client ID	PCB-30	PCB-31	PCB-32	PCB-33		
Matrix	S	S	S	S		
DF	500	10000	10	20	S	W
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<250	ND<6800	ND<15	ND<19	0.025	NA
Aroclor1221	ND<250	ND<6800	ND<15	ND<19	0.025	NA
Aroclor1232	ND<250	ND<6800	ND<15	ND<19	0.025	NA
Aroclor1242	ND<250	ND<6800	ND<15	ND<19	0.025	NA
Aroclor1248	ND<250	ND<6800	ND<15	ND<19	0.025	NA
Aroclor1254	1000	23,000	50	28	0.025	NA
Aroclor1260	ND<250	ND<6800	34	ND<19	0.025	NA
PCBs, total	1000	23,000	84	28	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	---	---	119	114		
Comments	h4	h4	h4	h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  h4) sulfuric acid permanganate (EPA 3665) cleanup						


DHS ELAP Certification 1644


 Angela Rydelius, Lab Manager

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
RGA Environmental  1466 66th Street  Emeryville, CA 94608		Client Project ID: #BRES 21720; Sealant Replacement, 100 California		Date Sampled: 07/27/09		
		Client Contact: Bob Gils		Date Received: 07/27/09		
		Client P.O.:		Date Extracted: 07/27/09		
				Date Analyzed 07/31/09-08/03/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0907685						
Lab ID	0907685-005A	0907685-006A	0907685-007A	0907685-008A	Reporting Limit for DF =1	
Client ID	PCB-34	PCB-35	PCB-36	PCB-37		
Matrix	S	S	S	S		
DF	20	1000	10	10000	S	W
<b>Compound</b>	<b>Concentration</b>				mg/kg	ug/L
Aroclor1016	ND<10	ND<500	ND<16	ND<8600	0.025	NA
Aroclor1221	ND<10	ND<500	ND<16	ND<8600	0.025	NA
Aroclor1232	ND<10	ND<500	ND<16	ND<8600	0.025	NA
Aroclor1242	ND<10	ND<500	ND<16	ND<8600	0.025	NA
Aroclor1248	ND<10	ND<500	ND<16	ND<8600	0.025	NA
Aroclor1254	21	3200	46	13,000	0.025	NA
Aroclor1260	ND<10	1500	42	ND<8600	0.025	NA
PCBs, total	21	4700	88	13,000	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	100	---	---	---		
Comments	h4	h4	h4	h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  h4) sulfuric acid permanganate (EPA 3665) cleanup						

DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager

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RGA Environmental  1466 66th Street  Emeryville, CA 94608	Client Project ID: #BRES 21720; Sealant Replacement, 100 California		Date Sampled: 07/27/09		
			Date Received: 07/27/09		
	Client Contact: Bob Gils		Date Extracted: 07/27/09		
	Client P.O.:		Date Analyzed 07/31/09-08/03/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0907685					
Lab ID	0907685-009A	0907685-010A	0907685-011A	Reporting Limit for DF =1	
Client ID	PCB-38	PCB-39	PCB-40		
Matrix	S	S	S		
DF	200	1000	10		
Compound	Concentration			mg/kg	ug/L
Aroclor1016	ND<100	ND<980	ND<15	0.025	NA
Aroclor1221	ND<100	ND<980	ND<15	0.025	NA
Aroclor1232	ND<100	ND<980	ND<15	0.025	NA
Aroclor1242	ND<100	ND<980	ND<15	0.025	NA
Aroclor1248	ND<100	ND<980	ND<15	0.025	NA
Aroclor1254	350	2200	96	0.025	NA
Aroclor1260	150	ND<980	68	0.025	NA
PCBs, total	500	2200	164	0.025	NA
Surrogate Recoveries (%)					
%SS:	---	---	---		
Comments	h4	h4	h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  h4) sulfuric acid permanganate (EPA 3665) cleanup					

 <p><b>ENVIRONMENTAL</b></p> <p>PM - S. Steiner steff@rgaenv.com fax: 510.899.7051</p> <p>PM - B. Weisbrod brent.weisbrod@rgaenv.com fax: 510.899.7052</p> <p>PM - K. Schroeter karin@rgaenv.com fax: 510.899.7063</p> <p>PM - T. Kattchee tedd@rgaenv.com fax: 510.899.7070</p> <p>PM - K. Pilgrim ken@rgaenv.com fax: 510.899.7053</p> <p>PM - B. Gils bob@rgaenv.com fax: 510.899.7050</p>	<h2 style="text-align: center;">Environmental SAMPLE DATA SHEET</h2> <p style="text-align: right;">PAGE <u>1</u> OF <u>2</u></p> <p style="text-align: center; font-size: 1.2em;">0927085</p>
--	---

Project Name/Address: Sealant Replacement, 100 California PO #: \_\_\_\_\_

RGA Project #: BRES 21720 Sampled By: Mike B Sampling Date: 7/27/09

Sample(s) Sent To ☐ EM Lab ☒ Other: McCampbell Turnaround Time: ☐ Rush ☐ 24-Hr ☐ Standard


**FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)** Shipping Requirements: ☐ Priority ☐ Standard Overnight ☐ 2-Day

**ADDITIONAL REPORT RECIPIENT(S):** \_\_\_\_\_

Sample I.D.	Type	Sample Description				Sample Location <small>ICE IT! <input checked="" type="checkbox"/> GOOD CONDITION HEAD SPACE ABSENT DECLORINATED IN LAB PRESERVATION</small>	Time (min)	Flow Rate (LPM)	Volume (L) or Area (cm <sup>2</sup> )	Culture	Direct Exam	Analysis
		Air	Bulk	Swab	Tape Lift							
PCB-30			X			14" Fl. W side (2)						PCB
PCB-31						14" Fl. W side (1)						
PCB-32						14" Fl. V side (5)						
PCB-33						11" Fl. W side (4-5)						
PCB-34						11" Fl. W side (9)						
PCB-35						11" Fl. W side (10)						
PCB-36						11" Fl. W side (11)						V

Relinquished By: <u>Mike B</u>	Signature: <u>[Signature]</u>	Date/Time: <u>7/27/09</u>
Received By: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Date/Time: <u>7/27/09</u>
Relinquished By: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Date/Time: <u>7/27/09</u>
Received By: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Date/Time: <u>7/27/09</u>



 <p><b>ENVIRONMENTAL</b></p> <p>PM - S. Steiner steff@rgaenv.com fax: 510.899.7051</p> <p>PM - K. Schroeter ksrin@rgaenv.com fax: 510.899.7053</p> <p>PM - K. Pilgrim ken@rgaenv.com fax: 510.899.7053</p> <p>PM - B. Weisbrod brent.weisbrod@rgaenv.com fax: 510.899.7062</p> <p>PM - T. Kattchee tedd@rgaenv.com fax: 510.899.7070</p> <p>PM - B. Gils bob@rgaenv.com fax: 510.899.7053</p>	<h2 style="text-align: center;">Environmental SAMPLE DATA SHEET</h2> <p style="text-align: right;">PAGE <u>2</u> OF <u>2</u></p>
--	--

Project Name/Address: \_\_\_\_\_ PO #: \_\_\_\_\_

RGA Project #: \_\_\_\_\_ Sampled By: \_\_\_\_\_ Sampling Date: \_\_\_\_\_

Sample(s) Sent To ☐ EM Lab ☐ Other: \_\_\_\_\_ Turnaround Time: ☐ Rush ☐ 24-Hr ☐ StandardFAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM) Shipping Requirements: ☐ Priority ☐ Standard Overnight ☐ 2-Day

ADDITIONAL REPORT RECIPIENT(S): \_\_\_\_\_

Sample I.D.	Type	Sample Description				Sample Location	Time (min)	Flow Rate (LPM)	Volume (L) or Area (cm <sup>2</sup> )	Culture	Direct Exam	Analysis
		Air	Bulk	Swab	Tape Lift							
PCB-37			X			8 <sup>th</sup> Fl. W side (1)						PCB
PCB-38						8 <sup>th</sup> Fl. W side (3)						↓
PCB-39						5 <sup>th</sup> Fl. W side (10)						
PCB-40						5 <sup>th</sup> Fl. W side (11)						↓

Relinquished By: <u>Mike B</u>	Signature: <u>[Signature]</u>	Date/Time: <u>7/27/09</u>
Received By: <u>[Signature]</u>	Signature: <u>M-P Valle</u>	Date/Time: <u>7/27/09</u>
Relinquished By: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Date/Time: <u>7/27/09</u>
Received By: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Date/Time: <u>[Signature]</u>

**McC Campbell Analytical, Inc.**

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0907685

ClientCode: RGAE

☐ WaterTrax☐ WriteOn☐ EDF☐ Excel☐ Fax☒ Email☐ HardCopy☐ ThirdParty☐ J-flag

## Report to:

Bob Gils  
RGA Environmental  
1466 66th Street  
Emeryville, CA 94608  
(510) 547-7771 FAX (510) 547-1983

Email: bob@rgaenv.com

cc:

PO:

ProjectNo: #BRES 21720; Sealant Replacement,  
100 California

## Bill to:

Andrea Peacock  
RGA Environmental  
1466 66th Street  
Emeryville, CA 94608  
invoices@rgaenv.com

Requested TAT: 5 days

Date Received: 07/27/2009

Date Printed: 07/27/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0907685-001	PCB-30	Solid	7/27/2009	<input type="checkbox"/>	A											
0907685-002	PCB-31	Solid	7/27/2009	<input type="checkbox"/>	A											
0907685-003	PCB-32	Solid	7/27/2009	<input type="checkbox"/>	A											
0907685-004	PCB-33	Solid	7/27/2009	<input type="checkbox"/>	A											
0907685-005	PCB-34	Solid	7/27/2009	<input type="checkbox"/>	A											
0907685-006	PCB-35	Solid	7/27/2009	<input type="checkbox"/>	A											
0907685-007	PCB-36	Solid	7/27/2009	<input type="checkbox"/>	A											
0907685-008	PCB-37	Solid	7/27/2009	<input type="checkbox"/>	A											
0907685-009	PCB-38	Solid	7/27/2009	<input type="checkbox"/>	A											
0907685-010	PCB-39	Solid	7/27/2009	<input type="checkbox"/>	A											
0907685-011	PCB-40	Solid	7/27/2009	<input type="checkbox"/>	A											

## Test Legend:

1	8082A PCB Solid
6	
11	

2	
7	
12	

3	
8	


4	
9	

5	
10	

Prepared by: Melissa Valles

## Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.

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---	---

### Sample Receipt Checklist

Client Name: **RGA Environmental** Date and Time Received: **7/27/2009 1:54:43 PM**  
 Project Name: **#BRES 21720; Sealant Replacement, 100 California** Checklist completed and reviewed by: **Melissa Valles**  
 WorkOrder N°: **0907685** Matrix Solid Carrier: Rob Pringle (MAI Courier)

#### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

#### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	


#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 5°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
TTLIC Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

Client contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_  
 Comments: \_\_\_\_\_

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---	---	---

## QC SUMMARY REPORT FOR SW8082

W.O. Sample Matrix: Solid

QC Matrix: Soil

BatchID: 44694

WorkOrder 0907685

EPA Method SW8082		Extraction SW3550C							Spiked Sample ID: 0907605-004A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	ND	0.075	130	121	6.93	111	114	2.24	70 - 130	20	70 - 130	20
%SS:	118	0.050	115	114	0.517	120	121	0.812	70 - 130	20	70 - 130	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

## BATCH 44694 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0907685-001A	07/27/09	07/27/09	08/02/09 4:00 PM	0907685-002A	07/27/09	07/27/09	08/02/09 4:57 PM
0907685-003A	07/27/09	07/27/09	08/02/09 5:53 PM	0907685-004A	07/27/09	07/27/09	08/01/09 3:29 AM
0907685-005A	07/27/09	07/27/09	08/02/09 6:50 PM	0907685-006A	07/27/09	07/27/09	08/01/09 12:45 AM
0907685-007A	07/27/09	07/27/09	08/03/09 3:40 PM	0907685-008A	07/27/09	07/27/09	08/02/09 8:42 PM
0907685-009A	07/27/09	07/27/09	08/03/09 12:03 PM	0907685-010A	07/27/09	07/27/09	07/31/09 9:03 PM
0907685-011A	07/27/09	07/27/09	08/03/09 12:59 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$$\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$$


MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

 QA/QC Officer


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EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122		Client Project ID: #9081; 100 California Street		Date Sampled: 05/20/09		
				Date Received: 05/20/09		
		Client Contact: Pat Garrett		Date Extracted: 05/20/09		
		Client P.O.:		Date Analyzed 05/21/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b>						
Extraction Method: SW3550C		Analytical Method: SW8082		Work Order: 0905399		
Lab ID	0905399-001A	0905399-002A			Reporting Limit for DF =1	
Client ID	9081-Pcb-1	9081-Pcb-2				
Matrix	S	S				
DF	10	8000			S W	
<b>Compound</b>	<b>Concentration</b>				mg/kg	ug/L
Aroclor1016	ND<5.0	ND<4000			0.025	NA
Aroclor1221	ND<5.0	ND<4000			0.025	NA
Aroclor1232	ND<5.0	ND<4000			0.025	NA
Aroclor1242	ND<5.0	ND<4000			0.025	NA
Aroclor1248	ND<5.0	ND<4000			0.025	NA
Aroclor1254	25	12,000			0.025	NA
Aroclor1260	ND<5.0	ND<4000			0.025	NA
PCBs, total	25	12,000			0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	113	---#				
Comments	h4	h4				
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  h4) sulfuric acid permanganate (EPA 3665) cleanup						

DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager



07.13.2010

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EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081; 100 California Street	Date Sampled: 05/20/09	
		Date Received: 05/20/09	
	Client Contact: Pat Garrett	Date Reported: 05/21/09	
	Client P.O.:	Date Completed: 05/21/09	

**WorkOrder: 0905399**

May 21, 2009

Dear Pat:

Enclosed within are:

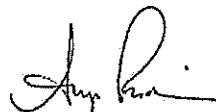
- 1) The results of the 2 analyzed samples from your project: **#9081; 100 California Street,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

**McC Campbell Analytical, Inc.**

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Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0905399

ClientCode: EVNN

☐ WriteOn☐ EDF☐ Excel☐ Fax☒ Email☐ HardCopy☐ ThirdParty☐ J-flag

## Report to:

Pat Garrett  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
415-883-7575 FAX 415-883-7475

Email: pgarrett@environova.com  
cc:  
PO:  
ProjectNo: #9081; 100 California Street

## Bill to:

Accounts Payable  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122

Requested TAT: 1 day

Date Received: 05/20/2009

Date Printed: 05/20/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0905399-001	9081-Pcb-1	Solid	5/20/2009	<input type="checkbox"/>	A											
0905399-002	9081-Pcb-2	Solid	5/20/2009	<input type="checkbox"/>	A											

Test Legend:

1	8082A PCB Solid	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments: 24hr rush

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.


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"When Quality Counts"

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 Telephone: 877-252-9262 Fax: 925-252-9269

### Sample Receipt Checklist

 Client Name: **EnviroNova**

 Date and Time Received: **5/20/2009 1:23:30 PM**

 Project Name: **#9081; 100 California Street**

 Checklist completed and reviewed by: **Ana Venegas**

 WorkOrder N°: **0905399** Matrix Solid

 Carrier: Client Drop-In

#### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

#### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp:		NA <input checked="" type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
TTLIC Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

\* NOTE: If the "No" box is checked, see comments below.

Client contacted:

Date contacted:

Contacted by:

Comments:

**McC Campbell Analytical, Inc.**

"When Quality Counts"

 1534 Willow Pass Road, Pittsburg, CA 94565-1701  
 Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
 Telephone: 877-252-9262 Fax: 925-252-9269
**QC SUMMARY REPORT FOR SW8082**

W.O. Sample Matrix: Solid

QC Matrix: Soil

BatchID: 43329

WorkOrder: 0905399

EPA Method SW8082		Extraction SW3550C							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	N/A	0.075	N/A	N/A	N/A	123	124	0.332	N/A	N/A	70 - 130	20
%SS:	N/A	0.050	N/A	N/A	N/A	86	87	0.403	N/A	N/A	70 - 130	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

BATCH 43329 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0905399-001A	05/20/09	05/20/09	05/21/09 10:10 AM	0905399-002A	05/20/09	05/20/09	05/21/09 2:20 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$$

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.


N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer



 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269	
EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081	Date Sampled: 06/04/09	
		Date Received: 06/04/09	
	Client Contact: Pat Garrett	Date Reported: 06/08/09	
	Client P.O.:	Date Completed: 06/08/09	

**WorkOrder: 0906159**

June 08, 2009

Dear Pat:

Enclosed within are:

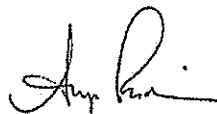
- 1) The results of the 6 analyzed samples from your project: #9081,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.


If you have any questions or concerns, please feel free to give me a call. Thank you for choosing


McC Campbell Analytical Laboratories for your analytical needs.

Best regards,




Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081; 100 California St. SF		Date Sampled: 06/04/09			
	Client Contact: Pat Garrett		Date Received: 06/05/09			
	Client P.O.:		Date Extracted: 06/05/09			
			Date Analyzed: 06/06/09			
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0906202						
Lab ID	0906202-001A	0906202-002A	0906202-003A	0906202-004A	Reporting Limit for DF =1	
Client ID	100-Pcb-7	100-Pcb-8	100-Pcb-9	100-Pcb-10		
Matrix	S	S	S	S		
DF	10000	10000	5000	10000	S	W
<b>Compound</b>	<b>Concentration</b>				<b>mg/kg</b>	<b>ug/L</b>
Aroclor1016	ND<5000	ND<5000	ND<2500	ND<5000	0.025	NA
Aroclor1221	ND<5000	ND<5000	ND<2500	ND<5000	0.025	NA
Aroclor1232	ND<5000	ND<5000	ND<2500	ND<5000	0.025	NA
Aroclor1242	ND<5000	ND<5000	ND<2500	ND<5000	0.025	NA
Aroclor1248	ND<5000	ND<5000	ND<2500	ND<5000	0.025	NA
Aroclor1254	15,000	29,000	9400	38,000	0.025	NA
Aroclor1260	ND<5000	ND<5000	ND<2500	ND<5000	0.025	NA
PCBs, total	15,000	29,000	9400	38,000	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	---	---	---	---		
Comments	h4	h4	h4	h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  h4) sulfuric acid permanganate (EPA 3665) cleanup						

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EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122		Client Project ID: #9081		Date Sampled: 06/04/09		
				Date Received: 06/04/09		
		Client Contact: Pat Garrett		Date Extracted: 06/04/09		
		Client P.O.:		Date Analyzed: 06/05/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0906159						
Lab ID	0906159-005A	0906159-006A			Reporting Limit for DF =1	
Client ID	100-PCB-5	100-PCB-6				
Matrix	S	S				
DF	5000	5000				
<b>Compound</b>	<b>Concentration</b>				<b>mg/kg</b>	<b>ug/L</b>
Aroclor1016	ND<2500	ND<2500			0.025	NA
Aroclor1221	ND<2500	ND<2500			0.025	NA
Aroclor1232	ND<2500	ND<2500			0.025	NA
Aroclor1242	ND<2500	ND<2500			0.025	NA
Aroclor1248	ND<2500	ND<2500			0.025	NA
Aroclor1254	15,000	15,000			0.025	NA
Aroclor1260	ND<2500	ND<2500			0.025	NA
PCBs, total	15,000	15,000			0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	---	---				
Comments	h4	h4				
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  h4) sulfuric acid permanganate (EPA 3665) cleanup						

DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager

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EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122		Client Project ID: #9081		Date Sampled: 06/04/09		
				Date Received: 06/04/09		
		Client Contact: Pat Garrett		Date Extracted: 06/04/09		
		Client P.O.:		Date Analyzed: 06/05/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0906159						
Lab ID	0906159-001A	0906159-002A	0906159-003A	0906159-004A	Reporting Limit for DF =1	
Client ID	100-PCB-1	100-PCB-2	100-PCB-3	100-PCB-4		
Matrix	S	S	S	S		
DF	50	20	2000	5000		
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<25	ND<10	ND<1000	ND<2500	0.025	NA
Aroclor1221	ND<25	ND<10	ND<1000	ND<2500	0.025	NA
Aroclor1232	ND<25	ND<10	ND<1000	ND<2500	0.025	NA
Aroclor1242	ND<25	ND<10	ND<1000	ND<2500	0.025	NA
Aroclor1248	ND<25	ND<10	ND<1000	ND<2500	0.025	NA
Aroclor1254	150	14	4100	18,000	0.025	NA
Aroclor1260	ND<25	ND<10	4700	ND<2500	0.025	NA
PCBs, total	150	14	8800	18,000	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	103	87	---	---		
Comments	h4	h4	h4	h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  h4) sulfuric acid permanganate (EPA 3665) cleanup						

07.13.2010



0906202

<b>McCAMPBELL ANALYTICAL, INC.</b> 1534 WILLOW PASS ROAD PITTSBURGH, CA 94565-1701 Website: <a href="http://www.mccampbell.com">www.mccampbell.com</a> Email: <a href="mailto:main@mccampbell.com">main@mccampbell.com</a> Telephone: (877) 252-9262 Fax: (925) 252-9269					<b>CHAIN OF CUSTODY RECORD</b> <b>TURN AROUND TIME</b> <input type="checkbox"/> <b>RUSH</b> <input checked="" type="checkbox"/> <b>24 HR</b> <input type="checkbox"/> <b>48 HR</b> <input type="checkbox"/> <b>72 HR</b> <input type="checkbox"/> <b>5 DAY</b> <input type="checkbox"/> <b>GeoTracker EDF</b> <input type="checkbox"/> <b>PDF</b> <input checked="" type="checkbox"/> <b>Excel</b> <input type="checkbox"/> <b>Write On (DW)</b>																
Report To: <u>PAT GAVETT</u>			Bill To:		Analysis Request					Other	Comments										
Company: <u>ENVIRONOVA, LLC</u>			E-Mail: <u>gavett@environova.com</u>		MTBE / BTX & TPH as Gas (602 / 8021 / 9015) MTBE / BTX ONLY (EPA 602 / 8021) TPH as Diesel / Motor Oil (8015) Total Petroleum Oil & Grease (1664 / 5530 E/RA/F) Total Petroleum Hydrocarbons (HL) EPA 502.2 / 601 / 8010 / 8021 (HVOCs) EPA 505 / 609 / 8081 (C) Pesticides EPA 608 / 8082 PC B's ONLY; Aroclors / Congeners EPA 507 / 8141 (NP Pesticides) EPA 515 / 8151 (Acidic Chlorides) EPA 514.2 / 614 / 8160 (VOCs) EPA 515.2 / 615 / 8170 (SVOCs) EPA 8270 SVT / 8310 (PADs / PNA) CAM 17 Metals (200.7 / 200.8 / 6010 / 6020) LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020) Lead (200.7 / 200.8 / 6010 / 6020)						Filter Samples for Metals analysis: Yes / No										
Tele: <u>(415) 408-8691</u>		Fax: <u>( )</u>																			
Project #: <u>9081</u>		Project Name:																			
Project Location: <u>100 CALIFORNIA ST. S.F.</u>																					
Sampler Signature:																					
SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX				METHOD PRESERVED											
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO <sub>3</sub>						Other		
100-Pcb-7	13 WS	6-11-09																			
100-Pcb-8	13 CP																				
100-Pcb-9	7 WS																				
100-Pcb-10	7 CP																				
100-Pcb-11																					
100-Pcb-12																					
Relinquished By: <u>[Signature]</u>		Date: <u>6-5-09</u>	Time: <u>3:40pm</u>	Received By: <u>[Signature]</u>		COMMENTS: ICE: <u>NO</u> GOOD CONDITION <input checked="" type="checkbox"/> HEAD SPACE ABSENT <input checked="" type="checkbox"/> DECHLORINATED IN LAB <input checked="" type="checkbox"/> APPROPRIATE CONTAINERS <input checked="" type="checkbox"/> PRESERVED IN LAB <input checked="" type="checkbox"/> VOAS O&G METALS OTHER PRESERVATION pH<2															
Relinquished By:		Date:	Time:	Received By:																	
Relinquished By:		Date:	Time:	Received By:																	

**McC Campbell Analytical, Inc.**

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0906202

ClientCode: EVNN

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## Report to:

Pat Garrett  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
415-883-7575 FAX 415-883-7475

Email: pgarrett@environova.com  
cc:  
PO:  
ProjectNo: #9081; 100 California St. SF

## Bill to:

Accounts Payable  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
accounts@environova.com

Requested TAT: 1 day

Date Received: 06/05/2009

Date Printed: 06/05/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0906202-001	100-Pcb-7	Solid	6/4/2009	<input type="checkbox"/>	A											
0906202-002	100-Pcb-8	Solid	6/4/2009	<input type="checkbox"/>	A											
0906202-003	100-Pcb-9	Solid	6/4/2009	<input type="checkbox"/>	A											
0906202-004	100-Pcb-10	Solid	6/4/2009	<input type="checkbox"/>	A											

Test Legend:

1	8082A_PCB_Solid
6	
11	

2	
7	
12	

3	
8	


4	
9	

5	
10	

Prepared by: Maria Venegas

Comments: 24hr Rush

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.

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---	---	---

### Sample Receipt Checklist

Client Name: **EnviroNova** Date and Time Received: **06/05/09 3:47:15 PM**  
 Project Name: **#9081; 100 California St. SF** Checklist completed and reviewed by: **Maria Venegas**  
 WorkOrder N°: **0906202** Matrix Solid Carrier: Client Drop-In

#### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

#### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp:		NA <input checked="" type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
TTL Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

\* NOTE: If the "No" box is checked, see comments below.

=====

Client contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Comments:

**McC Campbell Analytical, Inc.**

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Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0906159

ClientCode: EVNN

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## Report to:

Pat Garrett  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
415-883-7575 FAX 415-883-7475

Email: pgarrett@environova.com

cc:

PO:

ProjectNo: #9081

## Bill to:

Accounts Payable  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
accounts@environova.com

Requested TAT: 1 day

Date Received: 06/04/2009

Date Printed: 06/04/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0906159-001	100-PCB-1	Solid	6/4/2009	<input type="checkbox"/>	A											
0906159-002	100-PCB-2	Solid	6/4/2009	<input type="checkbox"/>	A											
0906159-003	100-PCB-3	Solid	6/4/2009	<input type="checkbox"/>	A											
0906159-004	100-PCB-4	Solid	6/4/2009	<input type="checkbox"/>	A											
0906159-005	100-PCB-5	Solid	6/4/2009	<input type="checkbox"/>	A											
0906159-006	100-PCB-6	Solid	6/4/2009	<input type="checkbox"/>	A											

Test Legend:

1	8082A PCB Solid
6	
11	

2	
7	
12	

3	
8	

4	
9	

5	
10	

Prepared by: Samantha Arbuckle

## Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.

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---	---	---

### Sample Receipt Checklist

Client Name: <b>EnviroNova</b>	Date and Time Received: <b>06/04/09 5:05:16 PM</b>	
Project Name: <b>#9081</b>	Checklist completed and reviewed by: <b>Samantha Arbuckle</b>	
WorkOrder N°: <b>0906159</b>	Matrix <u>Solid</u>	Carrier: <u>Client Drop-In</u>

#### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

#### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 26.2°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

\* NOTE: If the "No" box is checked, see comments below.

=====

Client contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Comments:



**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701

Web: www.mcccampbell.com E-mail: main@mcccampbell.com

Telephone: 877-252-9262 Fax: 925-252-9269

**QC SUMMARY REPORT FOR SW8082**

W.O. Sample Matrix: Solid

QC Matrix: Soil

BatchID: 43664

WorkOrder: 0906159

EPA Method SW8082		Extraction SW3550C							Spiked Sample ID: 0906169-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	0.52	0.075	NR	NR	NR	98.4	109	10.2	70 - 130	20	70 - 130	20
%SS:	115	0.050	89	97	8.58	71	78	9.53	70 - 130	20	70 - 130	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

**BATCH 43664 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0906159-001A	06/04/09	06/04/09	06/05/09 1:40 AM	0906159-002A	06/04/09	06/04/09	06/05/09 9:42 PM
0906159-003A	06/04/09	06/04/09	06/05/09 9:42 PM	0906159-004A	06/04/09	06/04/09	06/05/09 4:40 PM
0906159-005A	06/04/09	06/04/09	06/05/09 2:50 PM	0906159-006A	06/04/09	06/04/09	06/05/09 2:50 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$$\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$$


MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer

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RGA Environmental  1466 66th Street  Emeryville, CA 94608	Client Project ID: #BRES 21720; PCB Caulking Removal	Date Sampled: 09/29/09	
		Date Received: 09/29/09	
	Client Contact: Bob Gils	Date Reported: 10/06/09	
	Client P.O.:	Date Completed: 10/06/09	

WorkOrder: 0909832

October 06, 2009

Dear Bob:

Enclosed within are:

- 1) The results of the 22 analyzed samples from your project: #BRES 21720; PCB Caulking Remo
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.


If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,




Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.


 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
RGA Environmental  1466 66th Street  Emeryville, CA 94608		Client Project ID: #BRES 21720; PCB Caulking Removal		Date Sampled: 09/29/09		
				Date Received: 09/29/09		
		Client Contact: Bob Gils		Date Extracted: 09/29/09		
		Client P.O.:		Date Analyzed: 09/30/09-10/01/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550B Analytical Method: SW8082 Work Order: 0909832						
Lab ID	0909832-002A	0909832-003A	0909832-004A	0909832-005A	Reporting Limit for DF =1	
Client ID	MW1	BG1	BG2	WG1		
Matrix	Wipe	Wipe	Wipe	Wipe		
DF	1	1	1	1	RL	MDL
<b>Compound</b>	<b>Concentration</b>				<b>µg/100cm²</b>	<b>µg/100cm²</b>
Aroclor1016	ND	ND	ND	ND	0.5	0.25
Aroclor1221	ND	ND	ND	ND	0.5	0.25
Aroclor1232	ND	ND	ND	ND	0.5	0.25
Aroclor1242	ND	ND	ND	ND	0.5	0.25
Aroclor1248	ND	ND	ND	ND	0.5	0.25
Aroclor1254	ND	ND	ND	ND	0.5	0.25
Aroclor1260	ND	ND	ND	ND	0.5	0.25
PCBs, total	ND	ND	ND	ND	0.5	0.25
<b>Surrogate Recoveries (%)</b>						
%SS:	87	89	92	92		
<b>Comments</b>						
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/100cm², filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.						

DHS ELAP Certification 1644


 Angela Rydelius, Lab Manager

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
RGA Environmental  1466 66th Street  Emeryville, CA 94608		Client Project ID: #BRES 21720; PCB Caulking Removal		Date Sampled: 09/29/09		
				Date Received: 09/29/09		
		Client Contact: Bob Gils		Date Extracted: 09/29/09		
		Client P.O.:		Date Analyzed: 09/30/09-10/01/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550B Analytical Method: SW8082 Work Order: 0909832						
Lab ID	0909832-009A	0909832-010A	0909832-013A	0909832-016A	Reporting Limit for DF =1	
Client ID	BG4	WG3	MC1	WG5		
Matrix	Wipe	Wipe	Wipe	Wipe		
DF	1	1	1	1	RL	MDL
<b>Compound</b>	<b>Concentration</b>				<b>µg/100cm²</b>	<b>µg/100cm²</b>
Aroclor1016	ND	ND	ND	ND	0.5	0.25
Aroclor1221	ND	ND	ND	ND	0.5	0.25
Aroclor1232	ND	ND	ND	ND	0.5	0.25
Aroclor1242	ND	ND	ND	ND	0.5	0.25
Aroclor1248	ND	ND	ND	ND	0.5	0.25
Aroclor1254	ND	ND	ND	ND	0.5	0.25
Aroclor1260	ND	ND	ND	ND	0.5	0.25
PCBs, total	ND	ND	ND	ND	0.5	0.25
<b>Surrogate Recoveries (%)</b>						
%SS:	92	90	90	90		
<b>Comments</b>						
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/100cm², filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.						




 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
RGA Environmental  1466 66th Street  Emeryville, CA 94608		Client Project ID: #BRES 21720; PCB Caulking Removal		Date Sampled: 09/29/09		
				Date Received: 09/29/09		
		Client Contact: Bob Gils		Date Extracted: 09/29/09		
		Client P.O.:		Date Analyzed: 09/30/09-10/01/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550B Analytical Method: SW8082 Work Order: 0909832						
Lab ID	0909832-018A	0909832-021A			Reporting Limit for DF =1	
Client ID	M2	M4				
Matrix	Wipe	Wipe				
DF	1	1			RL	MDL
<b>Compound</b>	<b>Concentration</b>				<b>µg/100cm<sup>2</sup></b>	<b>µg/100cm<sup>2</sup></b>
Aroclor1016	ND	ND			0.5	0.25
Aroclor1221	ND	ND			0.5	0.25
Aroclor1232	ND	ND			0.5	0.25
Aroclor1242	ND	ND			0.5	0.25
Aroclor1248	ND	ND			0.5	0.25
Aroclor1254	ND	ND			0.5	0.25
Aroclor1260	ND	ND			0.5	0.25
PCBs, total	ND	ND			0.5	0.25
<b>Surrogate Recoveries (%)</b>						
%SS:	88	90				
<b>Comments</b>						
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/100cm <sup>2</sup> , filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.						

DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager



0707832

 <p><b>ENVIRONMENTAL</b></p>			<p align="center"><b>Environmental SAMPLE DATA SHEET</b></p> <p align="right">PAGE <u>1</u> OF <u>4</u></p>		
PM - S. Steiner steff@rgaenv.com fax: 510.899.7051	PM - K. Schroeter karn@rgaenv.com fax: 510.899.7053	PM - K. Pliginskii ken@rgaenv.com fax: 510.899.7053			
PM - B. Weisbrod brent.weisbrod@rgaenv.com fax: 510.899.7052	PM - T. Katchee ted@rgaenv.com fax: 510.899.7070	PM - B. Gils bob@rgaenv.com fax: 510.899.7050			

Project Name/Address: PCB Caulking Removal, 100 California PO #: \_\_\_\_\_

RGA Project #: BRES 21720 Sampled By: Mike B Sampling Date: 9/29/09


Sample(s) Sent To ☐ EM Lab ☐ Other: ☐ Turnaround Time: ☐ Rush ☐ 24-Hr ☐ Standard

**FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)** Shipping Requirements: ☐ Priority ☐ Standard Overnight ☐ 2-Day

**ADDITIONAL REPORT RECIPIENT(S):** \_\_\_\_\_

Sample I.D.	Type	Sample Description				Sample Location	Time (min)	Flow Rate (LPM)	Volume (L) or Area (cm <sup>2</sup> )	Culture	Direct Exam	Analysis
		Air	Bulk	Swab	Tape Lift							
M1			X			White marble e Grand level E side					X	PCB
MW1						White marble e Grand level E side						↓
B61						Black granite col e Grand level E side						
<del>B62</del>						Black granite panel pos. in 12 <sup>th</sup> Fl W						
<del>W61</del>						White B granite e 12 <sup>th</sup> Fl W side						
W62			X			White granite e 12 <sup>th</sup> Fl W side						
B63						Black granite e 12 <sup>th</sup> Fl W side						↓

Relinquished By: <u>Mike B</u>	Signature: <u>[Signature]</u>	Date/Time: <u>9/29/09 1441</u>
Received By: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Date/Time: <u>9/29/09 1441</u>
Relinquished By: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Date/Time: <u>9/29/09 1820</u>
Received By: _____	Signature: _____	Date/Time: _____

 <p><b>ENVIRONMENTAL</b></p> <p>PM - S. Steiner steff@rgaenv.com fax: 510.899.7051</p> <p>PM - K. Schroeter kann@rgaenv.com fax: 510.899.7053</p> <p>PM - B. Weisbrod brent.weisbrod@rgaenv.com fax: 510.899.7062</p> <p>PM - T. Kallchee tedd@rgaenv.com fax: 510.899.7070</p> <p>PM - K. Pilgrim ken@rgaenv.com fax: 510.899.7053</p> <p>PM - B. Gils bob@rgaenv.com fax: 510.899.7050</p>	<h2 style="margin: 0;">Environmental SAMPLE DATA SHEET</h2> <p style="margin: 10px 0 0 0;">PAGE <u>2</u> OF <u>4</u></p>
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Project Name/Address: \_\_\_\_\_ PO #: \_\_\_\_\_

RGA Project #: \_\_\_\_\_ Sampled By: \_\_\_\_\_ Sampling Date: \_\_\_\_\_


Sample(s) Sent To ☐ EM Lab ☐ Other: ☐ Turnaround Time: ☐ Rush ☐ 24-Hr ☐ Standard

**FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)** Shipping Requirements: ☐ Priority ☐ Standard Overnight ☐ 2-Day

**ADDITIONAL REPORT RECIPIENT(S):** \_\_\_\_\_

Sample I.D.	Type	Sample Description					Sample Location	Time (min)	Flow Rate (LPM)	Volume (L) or Area (cm <sup>2</sup> )	Culture	Direct Exam	Analysis
		Air	Bulk	Swab	Tape Lift								
GR1							Grout on 12th Fl N side						
BG4							Black granite @ 11th Fl N side						
WG3							Wht granite @ 11th Fl N side						
BG5							Blk granite @ 11th Fl N side						
WG4							Wht Granite @ 11th Fl N side						
MC1							Metal column @ 11th Fl N side						
GR2							Grout on 8th Fl E side						

Relinquished By: <u>M. K. B.</u>	Signature: <u>[Signature]</u>	Date/Time: <u>9/26/09 1441</u>
Received By: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Date/Time: <u>9/29/09 1441</u>
Relinquished By: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Date/Time: <u>9/29 1920</u>
Received By: _____	Signature: _____	Date/Time: _____

 <p><b>ENVIRONMENTAL</b></p> <p>PM - S. Steiner staff@rgaenv.com fax: 510.899.7051</p> <p>PM - K. Schroeter karin@rgaenv.com fax: 510.899.7053</p> <p>PM - K. Pignam ken@rgaenv.com fax: 510.899.7053</p> <p>PM - B. Weisbrod brent.weisbrod@rgaenv.com fax: 510.899.7052</p> <p>PM - T. Katchee todd@rgaenv.com fax: 510.899.7070</p> <p>PM - B. Gals bob@rgaenv.com fax: 510.899.7050</p>	<h2 style="margin: 0;">Environmental SAMPLE DATA SHEET</h2> <p style="margin: 0;">PAGE <u>3</u> OF <u>4</u></p>
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Project Name/Address: \_\_\_\_\_ PO #: \_\_\_\_\_

RGA Project #: \_\_\_\_\_ Sampled By: \_\_\_\_\_ Sampling Date: \_\_\_\_\_


Sample(s) Sent To ☐ EM Lab ☐ Other: ☐ Turnaround Time: ☐ Rush ☐ 24-Hr ☐ Standard

**FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)** Shipping Requirements: ☐ Priority ☐ Standard Overnight ☐ 2-Day

**ADDITIONAL REPORT RECIPIENT(S):** \_\_\_\_\_

Sample I.D.	Type	Sample Description				Sample Location	Time (min)	Flow Rate (LPM)	Volume (L) or Area (cm <sup>2</sup> )	Culture	Direct Exam	Analysis
		Air	Bulk	Swab	Tape Lift							
B66						Black Granite e 7 <sup>th</sup> Fl E side						
W65						wht granite @ 7 <sup>th</sup> Fl E side						
W66						wht granite e 7 <sup>th</sup> Fl E side						
M2						Whit marble e 7 <sup>th</sup> Fl E side						
M3						wht marble e 7 <sup>th</sup> Fl. E side						
GR3						Grout e 13 <sup>th</sup> Fl E side						
M4						wht marble e 13 <sup>th</sup> Fl. E side						

Relinquished By: <u>Mike B</u>	Signature: <u>[Signature]</u>	Date/Time: <u>9/20/09 144</u>
Received By: <u>Bon V.</u>	Signature: <u>[Signature]</u>	Date/Time: <u>9/22/09 1441</u>
Relinquished By: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Date/Time: <u>9/20/09 1520</u>
Received By: _____	Signature: _____	Date/Time: _____

 <p><b>RGA ENVIRONMENTAL</b></p> <table style="width: 100%;"> <tr> <td style="width: 33%;"> <u>PM – S. Steiner</u>  steff@rgaenv.com  fax: 510.899.7051 </td> <td style="width: 33%;"> <u>PM – K. Schreeter</u>  karin@rgaenv.com  fax: 510.899.7063 </td> <td style="width: 33%;"> <u>PM – K. Pilgrim</u>  ken@rgaenv.com  fax: 510.899.7053 </td> </tr> <tr> <td> <u>PM – B. Weisbrod</u>  brent.weisbrod@rgaenv.com  fax: 510.899.7062 </td> <td> <u>PM – T. Katchee</u>  tedd@rgaenv.com  fax: 510.899.7070 </td> <td> <u>PM – B. Gills</u>  bob@rgaenv.com  fax: 510.899.7050 </td> </tr> </table>	<u>PM – S. Steiner</u> steff@rgaenv.com fax: 510.899.7051	<u>PM – K. Schreeter</u> karin@rgaenv.com fax: 510.899.7063	<u>PM – K. Pilgrim</u> ken@rgaenv.com fax: 510.899.7053	<u>PM – B. Weisbrod</u> brent.weisbrod@rgaenv.com fax: 510.899.7062	<u>PM – T. Katchee</u> tedd@rgaenv.com fax: 510.899.7070	<u>PM – B. Gills</u> bob@rgaenv.com fax: 510.899.7050	<h2 style="margin: 0;">Environmental SAMPLE DATA SHEET</h2> <p style="margin: 0;">PAGE <u>4</u> OF <u>4</u></p>
<u>PM – S. Steiner</u> steff@rgaenv.com fax: 510.899.7051	<u>PM – K. Schreeter</u> karin@rgaenv.com fax: 510.899.7063	<u>PM – K. Pilgrim</u> ken@rgaenv.com fax: 510.899.7053					
<u>PM – B. Weisbrod</u> brent.weisbrod@rgaenv.com fax: 510.899.7062	<u>PM – T. Katchee</u> tedd@rgaenv.com fax: 510.899.7070	<u>PM – B. Gills</u> bob@rgaenv.com fax: 510.899.7050					

Project Name/Address: \_\_\_\_\_ PO #: \_\_\_\_\_

RGA Project #: \_\_\_\_\_ Sampled By: \_\_\_\_\_ Sampling Date: \_\_\_\_\_

Sample(s) Sent To ☐ EM Lab ☐ Other: ☐ Turnaround Time: ☐ Rush ☐ 24-Hr ☐ StandardFAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM) Shipping Requirements: ☐ Priority ☐ Standard Overnight ☐ 2-Day

ADDITIONAL REPORT RECIPIENT(S): \_\_\_\_\_

Sample I.D.	Type	Sample Description				Sample Location	Time (min)	Flow Rate (LPM)	Volume (L) or Area (cm <sup>2</sup> )	Culture	Direct Exam	Analysis
		Air	Bulk	Swab	Tap/Lift							
M5						Wet wall e 13 <sup>th</sup> Fl. E side						

Relinquished By: <u>Miles</u>	Signature: <u>[Signature]</u>	Date/Time: <u>2/20/07 1441</u>
Received By: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Date/Time: <u>2/27/07 1441</u>
Relinquished By: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Date/Time: <u>2/27 1320</u>
Received By: _____	Signature: _____	Date/Time: _____

**McC Campbell Analytical, Inc.**

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Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0909832

ClientCode: RGAE

☐ WaterTrax☐ WriteOn☐ EDF☐ Excel☐ Fax☒ Email☐ HardCopy☐ ThirdParty☐ J-flag

## Report to:

Bob Gils  
RGA Environmental  
1466 66th Street  
Emeryville, CA 94608  
(510) 547-7771 FAX (510) 547-1983

Email: bob@rgaenv.com  
cc:  
PO:  
ProjectNo: #BRES 21720; PCB Caulking Removal

## Bill to:

Andrea Peacock  
RGA Environmental  
1466 66th Street  
Emeryville, CA 94608  
invoices@rgaenv.com

Requested TAT: 5 days

Date Received: 09/29/2009

Date Printed: 09/29/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0909832-001	M1	Solid	9/29/2009	<input type="checkbox"/>	A											
0909832-002	MW1	Wipe	9/29/2009	<input type="checkbox"/>		A										
0909832-003	BG1	Wipe	9/29/2009	<input type="checkbox"/>		A										
0909832-004	BG2	Wipe	9/29/2009	<input type="checkbox"/>		A										
0909832-005	WG1	Wipe	9/29/2009	<input type="checkbox"/>		A										
0909832-006	WG2	Solid	9/29/2009	<input type="checkbox"/>	A											
0909832-007	BG3	Solid	9/29/2009	<input type="checkbox"/>	A											
0909832-008	GR1	Solid	9/29/2009	<input type="checkbox"/>	A											
0909832-009	BG4	Wipe	9/29/2009	<input type="checkbox"/>		A										
0909832-010	WG3	Wipe	9/29/2009	<input type="checkbox"/>		A										
0909832-011	BG5	Solid	9/29/2009	<input type="checkbox"/>	A											
0909832-012	WG4	Solid	9/29/2009	<input type="checkbox"/>	A											
0909832-013	MC1	Wipe	9/29/2009	<input type="checkbox"/>		A										
0909832-014	GR2	Solid	9/29/2009	<input type="checkbox"/>	A											

**Test Legend:**

1	8082A PCB Solid	2	8082A PCB WI	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



**McC Campbell Analytical, Inc.**

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(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0909832

ClientCode: RGAE

☐ WaterTrax☐ WriteOn☐ EDF☐ Excel☐ Fax☒ Email☐ HardCopy☐ ThirdParty☐ J-flag

## Report to:

Bob Gils  
RGA Environmental  
1466 66th Street  
Emeryville, CA 94608  
(510) 547-7771 FAX (510) 547-1983

Email: bob@rgaenv.com  
cc:  
PO:  
ProjectNo: #BRES 21720; PCB Caulking Removal

## Bill to:

Andrea Peacock  
RGA Environmental  
1466 66th Street  
Emeryville, CA 94608  
invoices@rgaenv.com

Requested TAT: 5 days

Date Received: 09/29/2009

Date Printed: 09/29/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0909832-015	BG6	Solid	9/29/2009	<input type="checkbox"/>	A											
0909832-016	WG5	Wipe	9/29/2009	<input type="checkbox"/>		A										
0909832-017	WG6	Solid	9/29/2009	<input type="checkbox"/>	A											
0909832-018	M2	Wipe	9/29/2009	<input type="checkbox"/>		A										
0909832-019	M3	Solid	9/29/2009	<input type="checkbox"/>	A											
0909832-020	GR3	Solid	9/29/2009	<input type="checkbox"/>	A											
0909832-021	M4	Wipe	9/29/2009	<input type="checkbox"/>		A										
0909832-022	M5	Solid	9/29/2009	<input type="checkbox"/>	A											

Test Legend:

1	8082A PCB Solid
6	
11	

2	8082A PCB WI
7	
12	

3	
8	

4	
9	

5	
10	

Prepared by: Ana Venegas

## Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.

**McC Campbell Analytical, Inc.**

"When Quality Counts"

 1534 Willow Pass Road, Pittsburg, CA 94565-1701  
 Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
 Telephone: 877-252-9262 Fax: 925-252-9269
**Sample Receipt Checklist**Client Name: **RGA Environmental**Date and Time Received: **9/29/2009 7:48:47 PM**Project Name: **#BRES 21720; PCB Caulking Removal**Checklist completed and reviewed by: **Ana Venegas**WorkOrder N\*: **0909832**Matrix: Solid/WipeCarrier: Benjamin Yslas (MAI Courier)**Chain of Custody (COC) Information**

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

**Sample Receipt Information**

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp:		NA <input checked="" type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
TTL Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

\* NOTE: If the "No" box is checked, see comments below.


=====

Client contacted:

Date contacted:


Contacted by:

Comments:

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
RGA Environmental  1466 66th Street  Emeryville, CA 94608		Client Project ID: #BRES 21720; PCB Caulking Removal		Date Sampled: 09/29/09		
				Date Received: 09/29/09		
		Client Contact: Bob Gils		Date Extracted: 09/29/09		
		Client P.O.:		Date Analyzed 10/01/09-10/05/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0909832						
Lab ID	0909832-001A	0909832-006A	0909832-007A	0909832-008A	Reporting Limit for DF =1	
Client ID	M1	WG2	BG3	GR1		
Matrix	S	S	S	S		
DF	1	1	1	10		
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<0.79	ND<0.50	ND<0.57	ND<5.0	0.025	NA
Aroclor1221	ND<0.79	ND<0.50	ND<0.57	ND<5.0	0.025	NA
Aroclor1232	ND<0.79	ND<0.50	ND<0.57	ND<5.0	0.025	NA
Aroclor1242	ND<0.79	ND<0.50	ND<0.57	ND<5.0	0.025	NA
Aroclor1248	ND<0.79	ND<0.50	ND<0.57	ND<5.0	0.025	NA
Aroclor1254	ND<0.79	1.9	ND<0.57	21	0.025	NA
Aroclor1260	ND<0.79	ND<0.50	ND<0.57	ND<5.0	0.025	NA
PCBs, total	ND<0.79	1.9	ND<0.57	21	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	107	110	111	124		
Comments	a7,h4	a4,h4	a7,h4	a4,h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  a4) the reporting limits were raised due to the sample's matrix prohibiting a full volume extraction. a7) reporting limit raised due to insufficient sample amount h4) sulfuric acid permanganate (EPA 3665) cleanup						


DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager

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RGA Environmental  1466 66th Street  Emeryville, CA 94608		Client Project ID: #BRES 21720; PCB Caulking Removal		Date Sampled: 09/29/09		
				Date Received: 09/29/09		
		Client Contact: Bob Gils		Date Extracted: 09/29/09		
		Client P.O.:		Date Analyzed 10/01/09-10/05/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0909832						
Lab ID	0909832-011A	0909832-012A	0909832-014A	0909832-015A	Reporting Limit for DF =1	
Client ID	BG5	WG4	GR2	BG6		
Matrix	S	S	S	S		
DF	1	1	2	2		
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<0.50	ND<0.91	ND<2.9	ND<1.0	0.025	NA
Aroclor1221	ND<0.50	ND<0.91	ND<2.9	ND<1.0	0.025	NA
Aroclor1232	ND<0.50	ND<0.91	ND<2.9	ND<1.0	0.025	NA
Aroclor1242	ND<0.50	ND<0.91	ND<2.9	ND<1.0	0.025	NA
Aroclor1248	ND<0.50	ND<0.91	ND<2.9	ND<1.0	0.025	NA
Aroclor1254	ND<0.50	ND<0.91	16	3.8	0.025	NA
Aroclor1260	ND<0.50	ND<0.91	7.8	1.6	0.025	NA
PCBs, total	ND<0.50	ND<0.91	23.8	5.4	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	109	108	99	111		
Comments	a4,h4	a7,h4	a4,h4	a4,h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  a4) the reporting limits were raised due to the sample's matrix prohibiting a full volume extraction. a7) reporting limit raised due to insufficient sample amount h4) sulfuric acid permanganate (EPA 3665) cleanup						

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 Angela Rydelius, Lab Manager

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
RGA Environmental  1466 66th Street  Emeryville, CA 94608		Client Project ID: #BRES 21720; PCB Caulking Removal		Date Sampled: 09/29/09		
				Date Received: 09/29/09		
		Client Contact: Bob Gils		Date Extracted: 09/29/09		
		Client P.O.:		Date Analyzed 10/01/09-10/05/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0909832						
Lab ID	0909832-017A	0909832-019A	0909832-020A	0909832-022A	Reporting Limit for DF = 1	
Client ID	WG6	M3	GR3	M5		
Matrix	S	S	S	S		
DF	1	1	10	1	S	W
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<0.50	ND<0.60	ND<5.0	ND<0.50	0.025	NA
Aroclor1221	ND<0.50	ND<0.60	ND<5.0	ND<0.50	0.025	NA
Aroclor1232	ND<0.50	ND<0.60	ND<5.0	ND<0.50	0.025	NA
Aroclor1242	ND<0.50	ND<0.60	ND<5.0	ND<0.50	0.025	NA
Aroclor1248	ND<0.50	ND<0.60	ND<5.0	ND<0.50	0.025	NA
Aroclor1254	2.1	ND<0.60	22	3.8	0.025	NA
Aroclor1260	ND<0.50	ND<0.60	ND<5.0	ND<0.50	0.025	NA
PCBs, total	2.1	ND<0.60	22	3.8	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	83	114	110	108		
Comments	a4,h4	a7,h4	a4,h4	a4,h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  a4) the reporting limits were raised due to the sample's matrix prohibiting a full volume extraction. a7) reporting limit raised due to insufficient sample amount h4) sulfuric acid permanganate (EPA 3665) cleanup						

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 Angela Rydelius, Lab Manager



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**QC SUMMARY REPORT FOR SW8082**

W.O. Sample Matrix: Wipe/Solid

QC Matrix: Soil

BatchID: 46130

WorkOrder 0909832

EPA Method SW8082		Extraction SW3550C							Spiked Sample ID: 0910023-007A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	ND	0.075	113	117	3.45	93.1	95.9	2.94	70 - 130	20	70 - 130	20
%SS:	115	0.050	86.8	91.7	5.52	86	89	3.90	70 - 130	20	70 - 130	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

**BATCH 46130 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909832-001A	09/29/09	09/29/09	10/01/09 5:24 PM	0909832-002A	09/29/09	09/29/09	09/30/09 10:34 PM
0909832-003A	09/29/09	09/29/09	09/30/09 9:38 PM	0909832-004A	09/29/09	09/29/09	09/30/09 8:42 PM
0909832-005A	09/29/09	09/29/09	09/30/09 7:46 PM	0909832-006A	09/29/09	09/29/09	10/01/09 6:19 PM
0909832-007A	09/29/09	09/29/09	10/01/09 7:14 PM	0909832-008A	09/29/09	09/29/09	10/01/09 8:10 PM
0909832-009A	09/29/09	09/29/09	09/30/09 6:49 PM	0909832-010A	09/29/09	09/29/09	09/30/09 5:52 PM
0909832-011A	09/29/09	09/29/09	10/02/09 6:17 AM	0909832-012A	09/29/09	09/29/09	10/02/09 7:11 AM
0909832-013A	09/29/09	09/29/09	10/01/09 2:19 AM	0909832-014A	09/29/09	09/29/09	10/03/09 8:21 AM
0909832-015A	09/29/09	09/29/09	10/03/09 9:16 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$$\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$$

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer

**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701

Web: www.mcccampbell.com E-mail: main@mcccampbell.com

Telephone: 877-252-9262 Fax: 925-252-9269

**QC SUMMARY REPORT FOR SW8082**

W.O. Sample Matrix: Wipe/Solid

QC Matrix: Soil

BatchID: 46154

WorkOrder 0909832

EPA Method SW8082		Extraction SW3550C							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	N/A	0.075	N/A	N/A	N/A	124	108	13.7	N/A	N/A	70 - 130	20
%SS:	N/A	0.050	N/A	N/A	N/A	100	99	0.699	N/A	N/A	70 - 130	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

**BATCH 46154 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909832-016A	09/29/09	09/29/09	10/01/09 12:25 AM	0909832-017A	09/29/09	09/29/09	10/02/09 9:56 AM
0909832-018A	09/29/09	09/29/09	09/30/09 11:30 PM	0909832-019A	09/29/09	09/29/09	10/05/09 7:38 PM
0909832-020A	09/29/09	09/29/09	10/02/09 4:28 AM	0909832-021A	09/29/09	09/29/09	10/01/09 1:23 AM
0909832-022A	09/29/09	09/29/09	10/02/09 5:22 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery =  $100 * (MS - Sample) / (Amount\ Spiked)$ ;  $RPD = 100 * (MS - MSD) / ((MS + MSD) / 2)$ .


MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269	
RGA Environmental  1466 66th Street  Emeryville, CA 94608	Client Project ID: #BRES 21720	Date Sampled: 12/02/09	
		Date Received: 12/07/09	
	Client Contact: Bob Gils	Date Reported: 12/15/09	
	Client P.O.:	Date Completed: 12/15/09	

WorkOrder: 0912162

December 15, 2009

Dear Bob:

Enclosed within are:

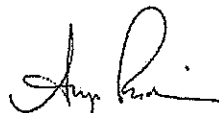
- 1) The results of the 4 analyzed samples from your project: #BRES 21720,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.


If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,




Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.


 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
RGA Environmental  1466 66th Street  Emeryville, CA 94608		Client Project ID: #BRES 21720		Date Sampled: 12/07/09		
				Date Received: 12/08/09		
		Client Contact: Bob Gils		Date Extracted: 12/08/09		
		Client P.O.:		Date Analyzed 12/14/09-12/15/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550B Analytical Method: SW8082 Work Order: 0912211						
Lab ID	0912211-001A	0912211-002A	0912211-003A	0912211-004A	Reporting Limit for DF =1	
Client ID	235926	235927	235928	235929		
Matrix	S	S	S	S		
DF	20	10	2	2		
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<0.50	ND<0.25	ND<0.050	ND<0.050	0.025	NA
Aroclor1221	ND<0.50	ND<0.25	ND<0.050	ND<0.050	0.025	NA
Aroclor1232	ND<0.50	ND<0.25	ND<0.050	ND<0.050	0.025	NA
Aroclor1242	ND<0.50	ND<0.25	ND<0.050	ND<0.050	0.025	NA
Aroclor1248	ND<0.50	ND<0.25	ND<0.050	ND<0.050	0.025	NA
Aroclor1254	ND<0.50	1.1	0.28	ND<0.050	0.025	NA
Aroclor1260	ND<0.50	ND<0.25	0.16	ND<0.050	0.025	NA
PCBs, total	ND<0.50	1.1	0.44	ND<0.050	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	81	81	73	80		
Comments	a1,h4	h4	h4	a1,h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  a1) sample diluted due to matrix interference h4) sulfuric acid permanganate (EPA 3665) cleanup						

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 Angela Rydelius, Lab Manager

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RGA Environmental  1466 66th Street  Emeryville, CA 94608		Client Project ID: #BRES 21720		Date Sampled: 12/07/09		
				Date Received: 12/08/09		
		Client Contact: Bob Gils		Date Extracted: 12/08/09		
		Client P.O.:		Date Analyzed 12/14/09-12/15/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550B Analytical Method: SW8082 Work Order: 0912211						
Lab ID	0912211-005A	0912211-006A	0912211-007A	0912211-008A	Reporting Limit for DF =1	
Client ID	235930	235931	235932	235933		
Matrix	S	S	S	S		
DF	5	5	1	1		
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<0.12	ND<0.12	ND	ND	0.025	NA
Aroclor1221	ND<0.12	ND<0.12	ND	ND	0.025	NA
Aroclor1232	ND<0.12	ND<0.12	ND	ND	0.025	NA
Aroclor1242	ND<0.12	ND<0.12	ND	ND	0.025	NA
Aroclor1248	ND<0.12	ND<0.12	ND	ND	0.025	NA
Aroclor1254	0.31	0.32	0.18	ND	0.025	NA
Aroclor1260	ND<0.12	ND<0.12	0.11	ND	0.025	NA
PCBs, total	0.31	0.32	0.29	ND	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	71	78	84	89		
Comments	h4	h4	h4	h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  a1) sample diluted due to matrix interference h4) sulfuric acid permanganate (EPA 3665) cleanup						




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RGA Environmental  1466 66th Street  Emeryville, CA 94608		Client Project ID: #BRES 21720		Date Sampled: 12/07/09	
				Date Received: 12/08/09	
		Client Contact: Bob Gils		Date Extracted: 12/08/09	
		Client P.O.:		Date Analyzed 12/14/09-12/15/09	
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b>					
Extraction Method: SW3550B		Analytical Method: SW8082		Work Order: 0912211	
Lab ID	0912211-009A				Reporting Limit for DF =1
Client ID	235934				
Matrix	S				
DF	2				
<b>Compound</b>	<b>Concentration</b>			mg/kg	ug/L
Aroclor1016	ND<0.050			0.025	NA
Aroclor1221	ND<0.050			0.025	NA
Aroclor1232	ND<0.050			0.025	NA
Aroclor1242	ND<0.050			0.025	NA
Aroclor1248	ND<0.050			0.025	NA
Aroclor1254	0.095			0.025	NA
Aroclor1260	ND<0.050			0.025	NA
PCBs, total	0.095			0.025	NA
<b>Surrogate Recoveries (%)</b>					
%SS:	75				
Comments	h4				
<p>* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP &amp; SPLP extracts are reported in mg/L.</p> <p>ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.</p> <p># surrogate diluted out of range or surrogate coelutes with another peak.</p> <p>a1) sample diluted due to matrix interference          h4) sulfuric acid permanganate (EPA 3665) cleanup</p>					

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 Angela Rydelius, Lab Manager



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RGA Environmental  1466 66th Street  Emeryville, CA 94608		Client Project ID: #BRES 21720		Date Sampled: 12/02/09		
				Date Received: 12/07/09		
		Client Contact: Bob Gils		Date Extracted: 12/07/09		
		Client P.O.:		Date Analyzed 12/07/09-12/15/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550B Analytical Method: SW8082 Work Order: 0912162						
Lab ID	0912162-001A	0912162-002A	0912162-003A	0912162-004A	Reporting Limit for DF =1	
Client ID	1A	1B	1C	1D		
Matrix	S	S	S	S		
DF	1	20	100	10		
<b>Compound</b>	<b>Concentration</b>				mg/kg	ug/L
Aroclor1016	ND<0.50	ND<10	ND<50	ND<5.0	0.025	NA
Aroclor1221	ND<0.50	ND<10	ND<50	ND<5.0	0.025	NA
Aroclor1232	ND<0.50	ND<10	ND<50	ND<5.0	0.025	NA
Aroclor1242	ND<0.50	ND<10	ND<50	ND<5.0	0.025	NA
Aroclor1248	ND<0.50	ND<10	ND<50	ND<5.0	0.025	NA
Aroclor1254	0.99	65	150	14	0.025	NA
Aroclor1260	ND<0.50	ND<10	ND<50	ND<5.0	0.025	NA
PCBs, total	0.99	65	150	14	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	97	110	120	98		
<b>Comments</b>	a14,h4	h4	h4	h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  a14) reporting limit raised due to the physical nature of the sample h4) sulfuric acid permanganate (EPA 3665) cleanup						

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 Angela Rydelius, Lab Manager



# McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD  
PITTSBURG, CA 94565-1701

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Telephone: (877) 252-9262

Fax: (925) 252-9269

## CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH

24 HR

48 HR

72 HR

5 DAY

☐ GeoTracker EDF

☐ PDF

☐ Excel

☐ Write On (DW)

Report To: REG ENVIRONMENTAL Bill To: REG

Company: BOB GILS

1466 60TH ST.

EMERYVILLE, CA 94608

E-Mail:

Tele: (510) 547-7771

Fax: ( )

Project #: BRES 21720

Project Name:

Project Location: 100 CALIFORNIA

Sampler Signature: [Signature]

### Analysis Request

### Other

### Comments

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED			
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO <sub>3</sub>	Other
235926	EAST PLANT	12/1/09					✓							
235927	EAST PLANT													
235928	EAST PLANT													
235929	EAST PLANT													
235930	EAST PLANT													
235931	EAST PLANT													
235932	EAST PLANT													
235933	SOUTH PLANT													
235934	SOUTH PLANT													

MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)

MTBE / BTEX ONLY (EPA 602 / 8021)

TPH as Diesel / Motor Oil (9015)

Total Petroleum Oil & Grease (1664 / 5550 E/BAF)

Total Petroleum Hydrocarbons (418.1)

EPA 502.2 / 601 / 8010 / 9021 (H VOCs)

EPA 505 / 608 / 9081 (CI Pesticides)

EPA 608 / 8082 PCB's ONLY / Arsenic / Congeners

EPA 507 / 8141 (NP Pesticides)

EPA 515 / 8151 (Acidic CI Herbicides)

EPA 524.2 / 624 / 8260 (VOCs)

EPA 525.2 / 625 / 8270 (SVOCs)

EPA 8270 SEM / 8310 (PAH's / PNAs)

CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)

LUFT 5 Metals (500.7 / 200.8 / 6010 / 6020)

Lead (200.7 / 200.8 / 6010 / 6020)

Filter Samples for Metals analysis: Yes / No

Relinquished By: Michael Reed

Date: 12/8/09

Time: 15

Received By: [Signature]

Relinquished By: [Signature]

Date: 12/8/09

Time: 15

Received By: [Signature]

Relinquished By: [Signature]

Date: 12/8/09

Time: 15

Received By: [Signature]

ICE/YES 19.900

GOOD CONDITION

HEAD SPACE ABSENT</

**McC Campbell Analytical, Inc.**

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0912211

ClientCode: RGAE

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

## Report to:

Bob Gils  
RGA Environmental  
1466 66th Street  
Emeryville, CA 94608  
(510) 547-7771 FAX (510) 547-1983

Email: bob@rgaenv.com  
cc:  
PO:  
ProjectNo: #BRES 21720

## Bill to:

Nick  
RGA Environmental  
1466 66th Street  
Emeryville, CA 94608  
nick.hecht@rgaenv.com

Requested TAT: 5 days

Date Received: 12/08/2009

Date Printed: 12/08/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0912211-001	235926	Soil	12/7/2009	<input type="checkbox"/>	A											
0912211-002	235927	Soil	12/7/2009	<input type="checkbox"/>	A											
0912211-003	235928	Soil	12/7/2009	<input type="checkbox"/>	A											
0912211-004	235929	Soil	12/7/2009	<input type="checkbox"/>	A											
0912211-005	235930	Soil	12/7/2009	<input type="checkbox"/>	A											
0912211-006	235931	Soil	12/7/2009	<input type="checkbox"/>	A											
0912211-007	235932	Soil	12/7/2009	<input type="checkbox"/>	A											
0912211-008	235933	Soil	12/7/2009	<input type="checkbox"/>	A											
0912211-009	235934	Soil	12/7/2009	<input type="checkbox"/>	A											


**Test Legend:**

1	8082A PCB S	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Samantha Arbuckle

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.

	<b>McC Campbell Analytical, Inc.</b> "When Quality Counts"	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269
---	---	---

### Sample Receipt Checklist

Client Name: **RGA Environmental** Date and Time Received: **12/8/2009 3:56:41 PM**  
 Project Name: **#BRES 21720** Checklist completed and reviewed by: **Samantha Arbuckle**  
 WorkOrder N°: **0912211** Matrix Soil Carrier: Rob Pringle (MAI Courier)

#### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

#### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 19.9°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	


(Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

=====

Client contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Comments:

	<b>McC Campbell Analytical, Inc.</b> "When Quality Counts"	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269
---	---	---

**QC SUMMARY REPORT FOR SW8082**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 47448

WorkOrder 0912211

EPA Method SW8082			Extraction SW3550B						Spiked Sample ID: 0912211-001A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)				
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
Aroclor1260	ND<0.50	0.075	NR	NR	NR	121	122	1.16	70 - 130	20	70 - 130	20	
%SS:	81	0.050	77	75	2.16	86	86	0	70 - 130	20	70 - 130	20	
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE													

**BATCH 47448 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0912211-001A	12/07/09	12/08/09	12/14/09 8:19 PM	0912211-002A	12/07/09	12/08/09	12/14/09 9:15 PM
0912211-003A	12/07/09	12/08/09	12/14/09 10:11 PM	0912211-004A	12/07/09	12/08/09	12/14/09 11:07 PM
0912211-005A	12/07/09	12/08/09	12/15/09 12:03 AM	0912211-006A	12/07/09	12/08/09	12/15/09 12:59 AM
0912211-007A	12/07/09	12/08/09	12/15/09 6:52 AM	0912211-008A	12/07/09	12/08/09	12/14/09 10:26 PM
0912211-009A	12/07/09	12/08/09	12/15/09 11:40 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.


$$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$$

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.


NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

 QA/QC Officer



0912162

		<b>PCB BULK SAMPLE DATA SHEET</b>  PAGE <u>1</u> OF <u>1</u>
PM - S. Steiner steff@rgaenv.com fax: 510.899.7051	PM - K. Schroeter karin@rgaenv.com fax: 510.899.7053	PM - K. Pilgrim ken@rgaenv.com fax: 510.899.7053
PM - B. Weisbrod brent.weisbrod@rgaenv.com fax: 510.899.7062	PM - T. Kattchee ted@rgaenv.com fax: 510.899.7070	PM - B. Gils bob@rgaenv.com fax: 510.899.7050

Project Name/Address: 100 CALIFORNIA

PO #

RGA Project #: BRES 21720Sampled By: M. REEDSampling Date: 12-2-09Sample(s) Sent To: ☒ McCampbell

Other: \_\_\_\_\_

Turnaround Time: Rush 24Hrs 3-5 Days

\*\*\*FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)\*\*\*

\*\*\*ADDITIONAL REPORT RECIPIENT(S):

\*\*\*

HM# <u>01</u>	Material Description: <u>EXTERIOR CAULKING</u>	
Sample ID	Sample Location & Material Location	Quantity:
<u>1A</u>	<u>SOUTH SIDE EXTERIOR WALL (E) - BETWEEN PANELS</u>	
<u>1B</u>	<u>" (W) - BETWEEN PANELS - NEAR LOUVER</u>	
<u>1C</u>	<u>NORTH SIDE LOADING DOCK AREA - BETWEEN PANELS</u>	
HM# <u>01</u>	Material Description: <u>CONTINUED</u>	
Sample ID	Sample Location & Material Location	Quantity:
<u>1D</u>	<u>NORTH SIDE EXTERIOR COLUMN SUPPORT - BETWEEN PANELS</u>	
HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:
	ICE / 1" <u>OK</u> GOOD CONDITION <u>APPROPRIATE</u> HEAD SPACE ABSENT <u>CONTAINERS</u> DECHLORINATED IN LAB <u>PRESERVED IN LAB</u> PRESERVATION <u>VOAS</u> <u>D &amp; G</u> <u>METALS</u> <u>OTHER</u>	REC'D SEALED & INTACT VIA <u>Golden State</u>
HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:
HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

Relinquished By: M. REEDSignature: M. REEDDate/Time: 12-2-09Received By: H. GilsSignature: H. GilsDate/Time: 12/3/09

Relinquished By:

Signature:

Date/Time:

Received By: Maria VeneyesSignature: Maria VeneyesDate/Time: 12/7/09 1120



**McC Campbell Analytical, Inc.**

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0912162

ClientCode: RGAE

☐ WaterTrax☐ WriteOn☐ EDF☐ Excel☐ Fax☒ Email☐ HardCopy☐ ThirdParty☐ J-flag

## Report to:

Bob Gils  
RGA Environmental  
1466 66th Street  
Emeryville, CA 94608  
(510) 547-7771 FAX (510) 547-1983

Email: bob@rgaenv.com

cc:

PO:

ProjectNo: #BRES 21720

## Bill to:

Andrea Peacock  
RGA Environmental  
1466 66th Street  
Emeryville, CA 94608  
invoices@rgaenv.com

Requested TAT: 5 days

Date Received: 12/07/2009

Date Printed: 12/07/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0912162-001	1A	Solid	12/2/2009	<input type="checkbox"/>	A											
0912162-002	1B	Solid	12/2/2009	<input type="checkbox"/>	A											
0912162-003	1C	Solid	12/2/2009	<input type="checkbox"/>	A											
0912162-004	1D	Solid	12/2/2009	<input type="checkbox"/>	A											

Test Legend:

1	8082A_PCB_Solid
6	
11	

2	
7	
12	

3	
8	


4	
9	

5	
10	

Prepared by: Maria Venegas

## Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269
---	---

**Sample Receipt Checklist**Client Name: **RGA Environmental**Date and Time Received: **12/7/2009 11:30:57 AM**Project Name: **#BRES 21720**Checklist completed and reviewed by: **Maria Venegas**WorkOrder N°: **0912162**Matrix SolidCarrier: Courier**Chain of Custody (COC) Information**

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

**Sample Receipt Information**

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp:		NA <input checked="" type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

\* NOTE: If the "No" box is checked, see comments below.

Client contacted:

Date contacted:

Contacted by:

Comments:


**McC Campbell Analytical, Inc.**

"When Quality Counts"

 1534 Willow Pass Road, Pittsburg, CA 94565-1701  
 Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
 Telephone: 877-252-9262 Fax: 925-252-9269

**QC SUMMARY REPORT FOR SW8082**

W.O. Sample Matrix: Solid

QC Matrix: Soil

BatchID: 47448

WorkOrder 0912162

EPA Method SW8082		Extraction SW3550B							Spiked Sample ID: 0912211-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	ND<0.50	0.075	NR	NR	NR	121	122	1.16	70 - 130	20	70 - 130	20
%SS:	81	0.050	77	75	2.16	86	86	0	70 - 130	20	70 - 130	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

**BATCH 47448 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0912162-001A	12/02/09	12/07/09	12/07/09 7:53 PM	0912162-002A	12/02/09	12/07/09	12/08/09 4:29 PM
0912162-003A	12/02/09	12/07/09	12/15/09 12:37 PM	0912162-004A	12/02/09	12/07/09	12/15/09 2:59 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$$

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer



June 16, 2009

9081  
Revised

Mr. Nathan Kelly  
Broadway Real Estate Services  
100 California Street  
San Francisco, CA

**Limited Lead, Asbestos, and PCB Survey  
Low and High Rise Roof, Columns, Drops 2, 3, & 13  
San Francisco, California**

Dear Mr. Kelly:

Pursuant to your request and authorization, EnviroNova LLC (EnviroNova), is pleased to present this letter report to Broadway Real Estate Services for conducting a limited lead, asbestos and PCB survey located at 100 California St., San Francisco, California (Site). On May 20, 2009 Mr. Michael Michie, California Certified Site Surveillance Technician (CSST), collected suspect asbestos and lead material samples from the referenced location. Materials such as sealants or caulking have a history of containing lead and Polychlorinated Biphenyls (PCBs), samples of these materials were also collected from the referenced location. The asbestos and lead samples were submitted under chain of custody procedures to Micro Analytical Laboratories of Emeryville, California. The asbestos samples were analyzed via polarized light microscopy (PLM) in accordance with the method specified in appendix A subpart F 40 CFR part 763, section 1. The lead samples were analyzed via flame atomic absorption (FLAA) in accordance with EPA SW-846 method. The PCB samples were submitted under chain of custody procedures to McCampbell Analytical Laboratories of Pittsburg, California. The PCB samples were analyzed via EPA SW8082 method.

On June 4, 2009, EnviroNova returned to collect caulk samples from the curtain panels and the window sealant on the east side. The previous samples collected on May 20, 2009 were from the west side, due to a misunderstanding Urban collected the samples from the west side. EnviroNova returned and collected the samples from the east side. The PCB samples were submitted under chain of custody procedures to McCampbell Analytical Laboratories of Pittsburg, California. The PCB samples were analyzed via EPA SW8082 method.

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 Broadway Real Estate Services  
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On June 8, 2009, Broadway Real Estate Services (BRES), EnviroNova, and Urban met in the offices of BRES to discuss the results of the samples collected thus far. It was decided that there were enough samples of the window sealant but more were needed of columns (both white and black caulk), the granite panels, and the vertical mullion. EnviroNova collected caulk from eleven (11) columns on all sides of the building. The samples were submitted under chain of custody procedures to McCampbell Analytical Laboratories of Pittsburg, California. The samples were analyzed via EPA SW8082 method. See Table IV for details.

On June 9, 2009, EnviroNova collected samples of the granite and the vertical mullion. The samples were collected from three sides of the building at three different floor levels. The samples were submitted under chain of custody procedures to McCampbell Analytical Laboratories of Pittsburg, California. The samples were analyzed via EPA SW8082 method. See Table V for details.

#### **ASBESTOS**

Three (3) homogeneous asbestos materials were sampled at the site, yielding three (3) bulk asbestos samples. The homogeneous materials sampled, tested negative for asbestos. Table I below summarizes the material, and location of the samples collected. The report of laboratory analysis and chain of custody are attached.

**Table I - Non Asbestos Containing Materials Sampled**

Material Description	Material Location
White Sealant	Low Rise Roof
Dark window sealant	Low Rise Roof
White paint	Parapet Wall high rise roof

#### **LEAD**

One (1) paint sample and two (2) sealant samples were collected for lead content. The paint and sealants sampled, tested positive for lead content. Table III below summarizes the material, location and lead content of the samples collected. The report of laboratory analysis and chain of custody are attached.

**Table II – Materials Sampled for Lead Content**

Material Description	Location	Lead Content (parts per
----------------------	----------	-------------------------

110 Landing Court, Suite B ♦Novato, California 94945♦415-883-7575 Phone 415-883-7475 FAX

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 Broadway Real Estate Services  
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		million)
White Sealant	Low Rise Roof	29 PPM
Dark Window Sealant	Low Rise Roof	1,976 PPM
White Paint	Parapet Wall High Rise Roof	304 PPM

### POLYCHLORINATED BIPHENYLS (PCBs)

Two (2) sealant samples (caulking) were collected for PCB content. The sealants sampled, tested positive for PCB content. Table III below summarizes the material, location and PCB content of the samples collected. The report of laboratory analysis and chain of custody are attached.

**Table III – Materials Sampled On 5/20/09 for PCBs**

Material Description	Location	PCB Content (parts per million)
White Sealant (Column)	Low Rise Roof	25 PPM
Dark Sealant (Window)	Low Rise Roof	12,000 PPM

Ten (10) sealant samples (caulk) were collected for PCB content. The sealants sampled, tested positive for PCB content. Table IV below summarizes the material, location and PCB content of the samples collected. The report of laboratory analysis and chain of custody are attached.

**Table IV – Materials Sampled On 6/4/09 for PCBs**

Material Description	Location	PCB Content (parts per million)
Curtain Panel	Low Rise Roof West Side	150 PPM
Granite Panel	Low Rise Roof West Side	14 PPM
Window Caulk	7 <sup>th</sup> Floor West Side	8,800 PPM
Black Granite Sealant	7 <sup>th</sup> Floor West Side	18,000 PPM
Window Caulk	13 <sup>th</sup> Floor West Side	15,000 PPM
Black Granite Sealant	13 <sup>th</sup> Floor West Side	15,000 PPM

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Window Caulk	7 <sup>th</sup> Floor East Side	15,000 PPM
Black Granite Sealant	7 <sup>th</sup> Floor East Side	29,000 PPM
Window Caulk	13 <sup>th</sup> Floor East Side	9,400 PPM
Black Granite Sealant	13 <sup>th</sup> Floor East Side	38,000 PPM

Twenty-two (22) sealant samples (caulk) were collected for PCB content. Thirteen (13) sealants sampled, tested positive for PCB content. Table V below summarizes the material, location and PCB content of the samples collected. The report of laboratory analysis and chain of custody are attached.

**Table V – Materials Sampled On 6/8/09 for PCBs**

Material Description	Location	PCB Content (parts per million)
White Caulk*** Black Caulk	Column 18	8.4*** ND < 50 PPM
White Caulk*** Black Caulk	Column 20	ND < 50*** 6.1 PPM
White Caulk*** Black Caulk	Column 16	ND < 100*** 13 PPM
White Caulk*** Black Caulk	Column 14	ND < 50*** 9.5 PPM
White Caulk*** Black Caulk	Column 12	3.1***1.6 PPM
White Caulk*** Black Caulk	Column 11	21***ND < 10 PPM
White Caulk*** Black Caulk	Column 10	ND < 50***ND < 25 PPM
White Caulk*** Black Caulk	Column 9	ND < 50***ND < 25 PPM
White Caulk*** Black Caulk	Column 7	22*** ND < 10 PPM
White Caulk*** Black Caulk	Column 5	18***61
White Caulk*** Black Caulk	Column 3	12*** ND < 10

Eighteen (18) sealant samples (caulk) were collected for PCB content. The sealants sampled, tested positive for PCB content. Table VI below summarizes the material, location and PCB content of the samples collected. The report of laboratory analysis and chain of custody are attached.

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**Table VI – Materials Sampled On 6/9/09 for PCBs**

Material Description	Location	PCB Content (parts per million)
White Granite Panel Caulk	Drop 2, 13 <sup>th</sup> Floor	230 PPM
Continuous Vertical Mullion Caulk	Drop 2, 13 <sup>th</sup> Floor	12 PPM
White Granite Panel Caulk	Drop 2, 9 <sup>th</sup> Floor	23 PPM
Continuous Vertical Mullion Caulk	Drop 2, 9 <sup>th</sup> Floor	230 PPM
White Granite Panel Caulk	Drop 2, 7 <sup>th</sup> Floor	440 PPM
Continuous Vertical Mullion Caulk	Drop 2, 7 <sup>th</sup> Floor	910 PPM
White Granite Panel Caulk	Drop 13, 13 <sup>th</sup> Floor	37 PPM
Continuous Vertical Mullion Caulk	Drop 13, 13 <sup>th</sup> Floor	37 PPM
White Granite Panel Caulk	Drop 13, 9 <sup>th</sup> Floor	40 PPM
Continuous Vertical Mullion Caulk	Drop 13, 9 <sup>th</sup> Floor	2,500 PPM
White Granite Panel Caulk	Drop 13, 7 <sup>th</sup> Floor	2,700 PPM
Continuous Vertical Mullion Caulk	Drop 13, 7 <sup>th</sup> Floor	5,200 PPM
White Granite Panel Caulk	Drop 3, 13 <sup>th</sup> Floor	54 PPM
Continuous Vertical Mullion Caulk	Drop 3, 13 <sup>th</sup> Floor	38 PPM
White Granite Panel Caulk	Drop 3, 9 <sup>th</sup> Floor	190 PPM
Continuous Vertical Mullion Caulk	Drop 3, 9 <sup>th</sup> Floor	250 PPM
White Granite Panel Caulk	Drop 3, 7 <sup>th</sup> Floor	18 PPM
Continuous Vertical Mullion Caulk	Drop 3, 7 <sup>th</sup> Floor	270 PPM

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Mr. Nathan Kelly  
Broadway Real Estate Services  
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Revised  
Mr. Nathan Kelly  
Broadway Real Estate Services  
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Environmental Protection Agency (EPA) states that caulking that contains PCBs at greater than 50 ppm is not authorized for continued use and must be removed. Although you are not required to remove caulking containing PCBs at levels below 50 ppm, you may wish to because the caulk may present health risks depending on the location, condition, etc. EPA recommends that owners and managers of buildings where PCBs are found in caulking take steps to minimize current potential exposure to building occupants until the caulk and contaminated surrounding materials can safely be removed.

This survey was conducted as a pre-renovation survey and an asbestos, lead and PCB abatement design document. Materials that were not included within the agreed upon scope of work, or could not be sampled discretely, were assumed to contain asbestos or lead or PCB. Until rebutted by appropriate sampling and analysis, these materials should be assumed to contain asbestos or lead or PCB. This survey was planned and implemented on the basis of a mutually agreed upon scope of work, and EnviroNova's previous experience in performing building surveys for asbestos containing materials (ACM), lead and PCB. EnviroNova uses only qualified professionals and laboratories to perform building surveys and sample analyses. However, without complete destructive sampling of all building materials, EnviroNova cannot warrant that the site does not contain in locations other than those noted in this report. EnviroNova sampled only visible and accessible materials suspected of containing asbestos or lead or PCB.

PLM is generally not capable of detecting extremely fine fibers ( $<0.3\mu\text{m}$  in diameter). However, further analysis by transmission electron microscopy is able to detect smaller fibers. However, this is a concern only with certain materials such as floor tiles.

This document was prepared by EnviroNova at the direction of Broadway Real Estate Services, for the sole use of the Broadway Real Estate Services, their sub-contractors the only intended beneficiaries of this work. No other party should rely on the information contained herein without the prior written consent of EnviroNova. This report and the interpretations, conclusions, and recommendations contained within are based in part on information presented in other documents or by other parties that are cited in the text. Therefore, this report is subject to the limitations and qualifications presented in the referenced information

EnviroNova recommends that all renovations that impact the lead and/or PCB containing materials noted in the tables above be performed by a registered abatement contractor. All lead and PCB work and disposal shall be in accordance with the local, State, and Federal regulations.


EnviroNova appreciates the opportunity to provide service on this project and we look forward to future assignments. Do not hesitate to contact me at (415) 408-8691 should you have any questions.

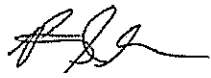
Respectfully submitted,

110 Landing Court, Suite B ♦Novato, California 94945♦415-883-7575 Phone 415-883-7475 FAX

June 16, 2009  
Revised  
Mr. Nathan Kelly  
Broadway Real Estate Services  
Page 8




  
Michael Michie, CSST (#07-4215)  
Staff Environmental Specialist

  
Patrick Garrett, CAC (#92-0337) CA-DPH (#110)  
Vice President

Attachments: Laboratory Reports  
Chain of Custodies

110 Landing Court, Suite B ♦Novato, California 94945♦415-883-7575 Phone 415-883-7475 FAX

	<b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269	
	EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081	Date Sampled: 06/04/09	
		Date Received: 06/04/09		
Client Contact: Pat Garrett		Date Reported: 06/08/09		
Client P.O.:		Date Completed: 06/08/09		

**WorkOrder: 0906159**

June 08, 2009

Dear Pat:

Enclosed within are:

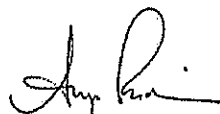
- 1) The results of the 6 analyzed samples from your project: #9081,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.



STUDY I  
SH 7411R

**McC Campbell Analytical, Inc.**

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0906159

ClientCode: EVNN

☐ WriteOn☐ EDF☐ Excel☐ Fax☒ Email☐ HardCopy☐ ThirdParty☐ J-flag

## Report to:

Pat Garrett  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
415-883-7575 FAX 415-883-7475

Email: pgarrett@environova.com

cc:

PO:

ProjectNo: #9081

## Bill to:

Accounts Payable  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
accounts@environova.com

Requested TAT: 1 day

Date Received: 06/04/2009

Date Printed: 06/04/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0906159-001	100-PCB-1	Solid	6/4/2009	<input type="checkbox"/>	A											
0906159-002	100-PCB-2	Solid	6/4/2009	<input type="checkbox"/>	A											
0906159-003	100-PCB-3	Solid	6/4/2009	<input type="checkbox"/>	A											
0906159-004	100-PCB-4	Solid	6/4/2009	<input type="checkbox"/>	A											
0906159-005	100-PCB-5	Solid	6/4/2009	<input type="checkbox"/>	A											
0906159-006	100-PCB-6	Solid	6/4/2009	<input type="checkbox"/>	A											

Test Legend:

1	8082A_PCB_Solid	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Samantha Arbuckle

## Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.

**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701

Web: www.mcccampbell.com E-mail: main@mcccampbell.com

Telephone: 877-252-9262 Fax: 925-252-9269

**Sample Receipt Checklist**Client Name: **EnviroNova**Date and Time Received: **06/04/09 5:05:16 PM**Project Name: **#9081**Checklist completed and reviewed by: **Samantha Arbuckle**WorkOrder N°: **0906159**Matrix SolidCarrier: Client Drop-In**Chain of Custody (COC) Information**

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

**Sample Receipt Information**

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 26.2°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
TTLIC Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	


\* NOTE: If the "No" box is checked, see comments below.

Client contacted:

Date contacted:


Contacted by:

Comments:

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122		Client Project ID: #9081  Client Contact: Pat Garrett  Client P.O.:		Date Sampled: 06/04/09 Date Received: 06/04/09 Date Extracted: 06/04/09 Date Analyzed: 06/05/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b>						
Extraction Method: SW3550C		Analytical Method: SW8082		Work Order: 0906159		
Lab ID	0906159-001A	0906159-002A	0906159-003A	0906159-004A	Reporting Limit for DF =1	
Client ID	100-PCB-1	100-PCB-2	100-PCB-3	100-PCB-4		
Matrix	S	S	S	S		
DF	50	20	2000	5000		
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<25	ND<10	ND<1000	ND<2500	0.025	NA
Aroclor1221	ND<25	ND<10	ND<1000	ND<2500	0.025	NA
Aroclor1232	ND<25	ND<10	ND<1000	ND<2500	0.025	NA
Aroclor1242	ND<25	ND<10	ND<1000	ND<2500	0.025	NA
Aroclor1248	ND<25	ND<10	ND<1000	ND<2500	0.025	NA
Aroclor1254	150	14	4100	18,000	0.025	NA
Aroclor1260	ND<25	ND<10	4700	ND<2500	0.025	NA
PCBs, total	150	14	8800	18,000	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	103	87	---	---		
Comments	h4	h4	h4	h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  h4) sulfuric acid permanganate (EPA 3665) cleanup						

DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081		Date Sampled: 06/04/09			
			Date Received: 06/04/09			
	Client Contact: Pat Garrett		Date Extracted: 06/04/09			
	Client P.O.:		Date Analyzed: 06/05/09			
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0906159						
Lab ID	0906159-005A	0906159-006A			Reporting Limit for DF =1	
Client ID	100-PCB-5	100-PCB-6				
Matrix	S	S				
DF	5000	5000				
<b>Compound</b>	<b>Concentration</b>				mg/kg	ug/L
Aroclor1016	ND<2500	ND<2500			0.025	NA
Aroclor1221	ND<2500	ND<2500			0.025	NA
Aroclor1232	ND<2500	ND<2500			0.025	NA
Aroclor1242	ND<2500	ND<2500			0.025	NA
Aroclor1248	ND<2500	ND<2500			0.025	NA
Aroclor1254	15,000	15,000			0.025	NA
Aroclor1260	ND<2500	ND<2500			0.025	NA
PCBs, total	15,000	15,000			0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	---	---				
Comments	h4	h4				
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  h4) sulfuric acid permanganate (EPA 3665) cleanup						

**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701

Web: www.mcccampbell.com E-mail: main@mcccampbell.com

Telephone: 877-252-9262 Fax: 925-252-9269

**QC SUMMARY REPORT FOR SW8082**

W.O. Sample Matrix: Solid

QC Matrix: Soil

BatchID: 43664

WorkOrder: 0906159

EPA Method SW8082		Extraction SW3550C							Spiked Sample ID: 0906169-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	0.52	0.075	NR	NR	NR	98.4	109	10.2	70 - 130	20	70 - 130	20
%SS:	115	0.050	89	97	8.58	71	78	9.53	70 - 130	20	70 - 130	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

**BATCH 43664 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0906159-001A	06/04/09	06/04/09	06/05/09 1:40 AM	0906159-002A	06/04/09	06/04/09	06/05/09 9:42 PM
0906159-003A	06/04/09	06/04/09	06/05/09 9:42 PM	0906159-004A	06/04/09	06/04/09	06/05/09 4:40 PM
0906159-005A	06/04/09	06/04/09	06/05/09 2:50 PM	0906159-006A	06/04/09	06/04/09	06/05/09 2:50 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery =  $100 * (MS - Sample) / (Amount\ Spiked)$ ;  $RPD = 100 * (MS - MSD) / ((MS + MSD) / 2)$ .

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.


N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer



 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269	
EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081; 100 California St. SF		Date Sampled: 06/04/09
	Client Contact: Pat Garrett		Date Received: 06/05/09
	Client P.O.:		Date Reported: 06/08/09
			Date Completed: 06/08/09

**WorkOrder: 0906202**

June 08, 2009

Dear Pat:

Enclosed within are:

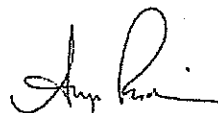
- 1) The results of the 4 analyzed samples from your project: #9081; 100 California St. SF,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

ORD RUSH

**McC Campbell Analytical, Inc.**

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0906202

ClientCode: EVNN

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## Report to:

Pat Garrett  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
415-883-7575 FAX 415-883-7475

Email: pgarrett@environova.com  
cc:  
PO:  
ProjectNo: #9081; 100 California St. SF

## Bill to:

Accounts Payable  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
accounts@environova.com

Requested TAT: 1 day

Date Received: 06/05/2009

Date Printed: 06/05/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0906202-001	100-Pcb-7	Solid	6/4/2009	<input type="checkbox"/>	A											
0906202-002	100-Pcb-8	Solid	6/4/2009	<input type="checkbox"/>	A											
0906202-003	100-Pcb-9	Solid	6/4/2009	<input type="checkbox"/>	A											
0906202-004	100-Pcb-10	Solid	6/4/2009	<input type="checkbox"/>	A											

## Test Legend:

1	8082A_PCB_Solid	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

Comments: 24hr Rush

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.

	<b>McC Campbell Analytical, Inc.</b> "When Quality Counts"	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269
---	---	---

### Sample Receipt Checklist

Client Name: **EnviroNova** Date and Time Received: **06/05/09 3:47:15 PM**  
 Project Name: **#9081; 100 California St. SF** Checklist completed and reviewed by: **Maria Venegas**  
 WorkOrder N°: **0906202** Matrix Solid Carrier: Client Drop-In

#### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

#### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

#### Sample Preservation and Hold Time (HT) Information


All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp:		NA <input checked="" type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

\* NOTE: If the "No" box is checked, see comments below.

=====

Client contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Comments: \_\_\_\_\_

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081; 100 California St. SF		Date Sampled: 06/04/09			
	Client Contact: Pat Garrett		Date Received: 06/05/09			
	Client P.O.:		Date Extracted: 06/05/09			
			Date Analyzed 06/06/09			
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0906202						
Lab ID	0906202-001A	0906202-002A	0906202-003A	0906202-004A	Reporting Limit for DF =1	
Client ID	100-Pcb-7	100-Pcb-8	100-Pcb-9	100-Pcb-10		
Matrix	S	S	S	S		
DF	10000	10000	5000	10000	S	W
<b>Compound</b>	<b>Concentration</b>				mg/kg	ug/L
Aroclor1016	ND<5000	ND<5000	ND<2500	ND<5000	0.025	NA
Aroclor1221	ND<5000	ND<5000	ND<2500	ND<5000	0.025	NA
Aroclor1232	ND<5000	ND<5000	ND<2500	ND<5000	0.025	NA
Aroclor1242	ND<5000	ND<5000	ND<2500	ND<5000	0.025	NA
Aroclor1248	ND<5000	ND<5000	ND<2500	ND<5000	0.025	NA
Aroclor1254	15,000	29,000	9400	38,000	0.025	NA
Aroclor1260	ND<5000	ND<5000	ND<2500	ND<5000	0.025	NA
PCBs, total	15,000	29,000	9400	38,000	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	---	---	---	---		
Comments	h4	h4	h4	h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  h4) sulfuric acid permanganate (EPA 3665) cleanup						

**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701

Web: www.mcccampbell.com E-mail: main@mcccampbell.com

Telephone: 877-252-9262 Fax: 925-252-9269

**QC SUMMARY REPORT FOR SW8082**

W.O. Sample Matrix: Solid

QC Matrix: Soil

BatchID: 43632

WorkOrder: 0906202

EPA Method SW8082		Extraction SW3550C							Spiked Sample ID: 0906192-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	2.0	0.075	NR	NR	NR	110	108	1.28	70 - 130	20	70 - 130	20
%SS:	123	0.050	85	86	1.35	99	99	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

BATCH 43632 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0906202-001A	06/04/09	06/05/09	06/06/09 5:01 PM	0906202-002A	06/04/09	06/05/09	06/06/09 5:01 PM
0906202-003A	06/04/09	06/05/09	06/06/09 5:57 PM	0906202-004A	06/04/09	06/05/09	06/06/09 5:57 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$$\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$$

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.


N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer



 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269	
EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081; 100 California Street	Date Sampled: 06/08/09	
		Date Received: 06/08/09	
	Client Contact: Pat Garrett	Date Reported: 06/09/09	
	Client P.O.:	Date Completed: 06/09/09	

**WorkOrder: 0906250**

June 10, 2009

Dear Pat:

Enclosed within are:

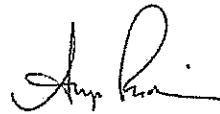
- 1) The results of the 11 analyzed samples from your project: #9081; 100 California Street,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

0906250

McCAMPBELL ANALYTICAL, INC.										CHAIN OF CUSTODY RECORD																						
<p><b>RUSH</b></p> <p>1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701</p> <p>Website: <a href="http://www.mccampbell.com">www.mccampbell.com</a> Email: <a href="mailto:main@mccampbell.com">main@mccampbell.com</a> Telephone: (877) 252-9262 Fax: (925) 252-9269</p>										<p>TURN AROUND TIME <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>RUSH: 24 HR 48 HR 72 HR 5 DAY</p> <p><input type="checkbox"/> GeoTracker EDF <input type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input type="checkbox"/> Write On (DW)</p>																						
Report To: <u>PAT Garrett</u>					Bill To:					Analysis Request					Other		Comments															
Company: <u>EnviroNova</u>																																
Tele: (415) 408-8691					E-Mail: <u>pgarrett@environova.com</u>																											
Project #: <u>9081</u>					Fax: ( )																											
Project Location: <u>100 California St.</u>					Project Name:																											
Sampler Signature: <u>[Signature]</u>																																
SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX				METHOD PRESERVED				MTBE / BTEX & TPH as Gas (602 / 8021 / 3015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVCs)	EPA 808 / 608 / 8091 (CI Pesticides)	EPA 608 / 8082 PCB'S ONLY, Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)			Filter Samples for Metals analysis: Yes / No
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO <sub>3</sub>																			
9081-WM 1	clm# 18	6/8/09							X																							
9081-WM 2	clm# 20								X																							
9081-WM 3	clm# 16								X																							
9081-WM 4	clm# 14								X																							
9081-WM 5	clm# 12								X																							
9081-WM 6	clm# 11								X																							
9081-WM 7	clm# 10								X																							
9081-WM 8	clm# 9								X																							
9081-WM 9	clm# 7								X																							
9081-WM 10	clm# 5								X																							
9081-WM 11	clm# 3								X																							
Relinquished By: <u>[Signature]</u>					Date: <u>6/8/09</u> Time: <u>608</u>					Received By: <u>[Signature]</u>					<p>ICE/T <u>N/A</u></p> <p>GOOD CONDITION _____</p> <p>HEAD SPACE ABSENT _____</p> <p>DECHLORINATED IN LAB _____</p> <p>APPROPRIATE CONTAINERS _____</p> <p>PRESERVED IN LAB _____</p> <p>VOAS O&amp;G METALS OTHER PRESERVATION pH&lt;2</p>																	
Relinquished By:					Date: Time:					Received By:																						
Relinquished By:					Date: Time:					Received By:																						

**McC Campbell Analytical, Inc.**

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0906250

ClientCode: EVNN

☐ WaterTrax☐ WriteOn☐ EDF☐ Excel☐ Fax☒ Email☐ HardCopy☐ ThirdParty☐ J-flag

## Report to:

Pat Garrett  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
415-883-7575 FAX 415-883-7475

Email: pgarrett@environova.com  
cc:  
PO:  
ProjectNo: #9081; 100 California Street

## Bill to:

Accounts Payable  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
accounts@environova.com

Requested TAT: 1 day

Date Received: 06/08/2009

Date Printed: 06/08/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0906250-001	9081-WM 1	Solid	6/8/2009	<input type="checkbox"/>	A											
0906250-002	9081-WM 2	Solid	6/8/2009	<input type="checkbox"/>	A											
0906250-003	9081-WM 3	Solid	6/8/2009	<input type="checkbox"/>	A											
0906250-004	9081-WM 4	Solid	6/8/2009	<input type="checkbox"/>	A											
0906250-005	9081-WM 5	Solid	6/8/2009	<input type="checkbox"/>	A											
0906250-006	9081-WM 6	Solid	6/8/2009	<input type="checkbox"/>	A											
0906250-007	9081-WM 7	Solid	6/8/2009	<input type="checkbox"/>	A											
0906250-008	9081-WM 8	Solid	6/8/2009	<input type="checkbox"/>	A											
0906250-009	9081-WM 9	Solid	6/8/2009	<input type="checkbox"/>	A											
0906250-010	9081-WM 10	Solid	6/8/2009	<input type="checkbox"/>	A											
0906250-011	9081-WM 11	Solid	6/8/2009	<input type="checkbox"/>	A											

**Test Legend:**

1	8082A PCB Solid
6	
11	

2	
7	
12	

3	
8	

4	
9	

5	
10	

Prepared by: Ana Venegas

Comments: 24hr rush

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.

**McC Campbell Analytical, Inc.**

"When Quality Counts"

 1534 Willow Pass Road, Pittsburg, CA 94565-1701  
 Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
 Telephone: 877-252-9262 Fax: 925-252-9269
**Sample Receipt Checklist**Client Name: **EnviroNova**Date and Time Received: **6/8/2009 6:16:09 PM**Project Name: **#9081; 100 California Street**Checklist completed and reviewed by: **Ana Venegas**WorkOrder N°: **0906250** Matrix SolidCarrier: Client Drop-In**Chain of Custody (COC) Information**

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

**Sample Receipt Information**

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp:		NA <input checked="" type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
TTLIC Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	


\* NOTE: If the "No" box is checked, see comments below.

Client contacted:


Date contacted:


Contacted by:

Comments:

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081; 100 California Street			Date Sampled: 06/08/09		
	Client Contact: Pat Garrett			Date Received: 06/08/09		
	Client P.O.:			Date Extracted: 06/08/09		
				Date Analyzed: 06/09/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0906250						
Lab ID	0906250-001A	0906250-002A	0906250-003A	0906250-004A	Reporting Limit for DF =1	
Client ID	9081-WM 1	9081-WM 2	9081-WM 3	9081-WM 4		
Matrix	S	S	S	S		
DF	5	100	200	100		
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<2.5	ND<50	ND<100	ND<50	0.025	NA
Aroclor1221	ND<2.5	ND<50	ND<100	ND<50	0.025	NA
Aroclor1232	ND<2.5	ND<50	ND<100	ND<50	0.025	NA
Aroclor1242	ND<2.5	ND<50	ND<100	ND<50	0.025	NA
Aroclor1248	ND<2.5	ND<50	ND<100	ND<50	0.025	NA
Aroclor1254	8.4	ND<50	ND<100	ND<50	0.025	NA
Aroclor1260	ND<2.5	ND<50	ND<100	ND<50	0.025	NA
PCBs, total	8.4	ND<50	ND<100	ND<50	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	116	---	---	---		
Comments	h4	a1,a14,h4	a1,a14,h4	a1,a14,h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  a1) sample diluted due to matrix interference a14) reporting limit raised due to the physical nature of the sample h4) sulfuric acid permanganate (EPA 3665) cleanup						

DHS ELAP Certification 1644


 Angela Rydelius, Lab Manager

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081; 100 California Street		Date Sampled: 06/08/09			
			Date Received: 06/08/09			
	Client Contact: Pat Garrett		Date Extracted: 06/08/09			
	Client P.O.:		Date Analyzed: 06/09/09			
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0906250						
Lab ID	0906250-005A	0906250-006A	0906250-007A	0906250-008A	Reporting Limit for DF =1	
Client ID	9081-WM 5	9081-WM 6	9081-WM 7	9081-WM 8		
Matrix	S	S	S	S		
DF	2	10	10	10		
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<1.0	ND<5.0	ND<5.0	ND<5.0	0.025	NA
Aroclor1221	ND<1.0	ND<5.0	ND<5.0	ND<5.0	0.025	NA
Aroclor1232	ND<1.0	ND<5.0	ND<5.0	ND<5.0	0.025	NA
Aroclor1242	ND<1.0	ND<5.0	ND<5.0	ND<5.0	0.025	NA
Aroclor1248	ND<1.0	ND<5.0	ND<5.0	ND<5.0	0.025	NA
Aroclor1254	3.1	21	ND<5.0	ND<5.0	0.025	NA
Aroclor1260	ND<1.0	ND<5.0	ND<5.0	ND<5.0	0.025	NA
PCBs, total	3.1	21	ND<5.0	ND<5.0	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	81	100	---	---		
Comments	h4	h4	a1,a14,h4	a1,a14,h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  a1) sample diluted due to matrix interference a14) reporting limit raised due to the physical nature of the sample h4) sulfuric acid permanganate (EPA 3665) cleanup						

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 Angela Rydelius, Lab Manager



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EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122		Client Project ID: #9081; 100 California Street		Date Sampled: 06/08/09		
				Date Received: 06/08/09		
		Client Contact: Pat Garrett		Date Extracted: 06/08/09		
		Client P.O.:		Date Analyzed: 06/09/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0906250						
Lab ID	0906250-009A	0906250-010A	0906250-011A		Reporting Limit for DF=1	
Client ID	9081-WM 9	9081-WM 10	9081-WM 11			
Matrix	S	S	S			
DF	10	10	10			
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<5.0	ND<5.0	ND<5.0		0.025	NA
Aroclor1221	ND<5.0	ND<5.0	ND<5.0		0.025	NA
Aroclor1232	ND<5.0	ND<5.0	ND<5.0		0.025	NA
Aroclor1242	ND<5.0	ND<5.0	ND<5.0		0.025	NA
Aroclor1248	ND<5.0	ND<5.0	ND<5.0		0.025	NA
Aroclor1254	22	18	12		0.025	NA
Aroclor1260	ND<5.0	ND<5.0	ND<5.0		0.025	NA
PCBs, total	22	18	12		0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	101	78	76			
Comments	h4	h4	h4			
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  a1) sample diluted due to matrix interference a14) reporting limit raised due to the physical nature of the sample h4) sulfuric acid permanganate (EPA 3665) cleanup						

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 Angela Rydelius, Lab Manager

**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701

Web: www.mcccampbell.com E-mail: main@mcccampbell.com

Telephone: 877-252-9262 Fax: 925-252-9269

**QC SUMMARY REPORT FOR SW8082**

W.O. Sample Matrix: Solid

QC Matrix: Soil

BatchID: 43632

WorkOrder: 0906250

EPA Method SW8082		Extraction SW3550C							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	N/A	0.075	NR	NR	NR	110	108	1.28	0 - 0	0	70 - 130	20
%SS:	123	0.050	N/A	N/A	N/A	99	99	0	N/A	N/A	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

**BATCH 43632 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0906250-001A	06/08/09	06/08/09	06/09/09 11:39 AM	0906250-002A	06/08/09	06/08/09	06/09/09 5:33 PM
0906250-003A	06/08/09	06/08/09	06/09/09 5:21 PM	0906250-004A	06/08/09	06/08/09	06/09/09 4:24 PM
0906250-005A	06/08/09	06/08/09	06/09/09 11:46 AM	0906250-006A	06/08/09	06/08/09	06/09/09 11:46 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$$

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer

**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701

Web: www.mcccampbell.com E-mail: main@mcccampbell.com

Telephone: 877-252-9262 Fax: 925-252-9269

**QC SUMMARY REPORT FOR SW8082**

W.O. Sample Matrix: Solid

QC Matrix: Soil

BatchID: 43664

WorkOrder: 0906250

EPA Method SW8082		Extraction SW3550C							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	N/A	0.075	NR	NR	NR	98.4	109	10.2	0 - 0	0	70 - 130	20
%SS:	115	0.050	N/A	N/A	N/A	71	78	9.53	N/A	N/A	70 - 130	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

**BATCH 43664 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0906250-007A	06/08/09	06/08/09	06/09/09 5:21 PM	0906250-008A	06/08/09	06/08/09	06/09/09 4:24 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$$

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701

Web: www.mcccampbell.com E-mail: main@mcccampbell.com

Telephone: 877-252-9262 Fax: 925-252-9269

**QC SUMMARY REPORT FOR SW8082**

W.O. Sample Matrix: Solid

QC Matrix: Soil

BatchID: 43734

WorkOrder: 0906250

EPA Method SW8082		Extraction SW3550C							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	N/A	0.075	N/A	N/A	N/A	100	103	2.38	N/A	N/A	70 - 130	20
%SS:	N/A	0.050	N/A	N/A	N/A	88	101	13.7	N/A	N/A	70 - 130	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

BATCH 43734 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0906250-009A	06/08/09	06/08/09	06/09/09 1:37 PM	0906250-010A	06/08/09	06/08/09	06/09/09 2:33 PM
0906250-011A	06/08/09	06/08/09	06/09/09 3:28 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery =  $100 * (MS - Sample) / (Amount Spiked)$ ; RPD =  $100 * (MS - MSD) / ((MS + MSD) / 2)$ .


MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

	<b>McC Campbell Analytical, Inc.</b> "When Quality Counts"	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269	
EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081; 100 California St	Date Sampled: 06/08/09	
		Date Received: 06/08/09	
	Client Contact: Pat Garrett	Date Reported: 06/10/09	
	Client P.O.:	Date Completed: 06/10/09	

**WorkOrder: 0906253**

June 10, 2009

Dear Pat:

Enclosed within are:

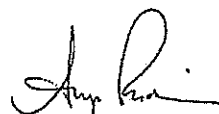
- 1) The results of the 11 analyzed samples from your project: **#9081; 100 California St,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

07.13.2010



**McC Campbell Analytical, Inc.**

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0906253

ClientCode: EVNN

☐ WaterTrax☐ WriteOn☐ EDF☐ Excel☐ Fax☒ Email☐ HardCopy☐ ThirdParty☐ J-flag

## Report to:

Pat Garrett  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
415-883-7575 FAX 415-883-7475

Email: pgarrett@environova.com  
cc:  
PO:  
ProjectNo: #9081; 100 California St

## Bill to:

Accounts Payable  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
accounts@environova.com

Requested TAT: 1 day

Date Received: 06/08/2009

Date Printed: 06/08/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0906253-001	9081-BM 1	Solid	6/8/2009	<input type="checkbox"/>	A											
0906253-002	9081-BM 2	Solid	6/8/2009	<input type="checkbox"/>	A											
0906253-003	9081-BM 3	Solid	6/8/2009	<input type="checkbox"/>	A											
0906253-004	9081-BM 4	Solid	6/8/2009	<input type="checkbox"/>	A											
0906253-005	9081-BM 5	Solid	6/8/2009	<input type="checkbox"/>	A											
0906253-006	9081-BM 6	Solid	6/8/2009	<input type="checkbox"/>	A											
0906253-007	9081-BM 7	Solid	6/8/2009	<input type="checkbox"/>	A											
0906253-008	9081-BM 8	Solid	6/8/2009	<input type="checkbox"/>	A											
0906253-009	9081-BM 9	Solid	6/8/2009	<input type="checkbox"/>	A											
0906253-010	9081-BM 10	Solid	6/8/2009	<input type="checkbox"/>	A											
0906253-011	9081-BM 11	Solid	6/8/2009	<input type="checkbox"/>	A											

**Test Legend:**

1	8082A PCB Solid
6	
11	

2	
7	
12	

3	
8	


4	
9	

5	
10	

Prepared by: Ana Vencgas

Comments: 24hr rush

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.

	<b>McC Campbell Analytical, Inc.</b> "When Quality Counts"	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269
---	---	---

### Sample Receipt Checklist

Client Name: **EnviroNova** Date and Time Received: **6/8/2009 6:31:59 PM**  
 Project Name: **#9081; 100 California St** Checklist completed and reviewed by: **Ana Venegas**  
 WorkOrder N°: **0906253** Matrix Solid Carrier: Derik Cartan (MAI Courier)

#### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

#### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	


#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp:		NA <input checked="" type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

\* NOTE: If the "No" box is checked, see comments below.


Client contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Comments: \_\_\_\_\_

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EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122		Client Project ID: #9081; 100 California St		Date Sampled: 06/08/09		
				Date Received: 06/08/09		
		Client Contact: Pat Garrett		Date Extracted: 06/08/09		
		Client P.O.:		Date Analyzed 06/09/09-06/10/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0906253						
Lab ID	0906253-001A	0906253-002A	0906253-003A	0906253-004A	Reporting Limit for DF =1	
Client ID	9081-BM 1	9081-BM 2	9081-BM 3	9081-BM 4		
Matrix	S	S	S	S		
DF	10	10	10	5		
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<5.0	ND<5.0	ND<5.0	ND<2.5	0.025	NA
Aroclor1221	ND<5.0	ND<5.0	ND<5.0	ND<2.5	0.025	NA
Aroclor1232	ND<5.0	ND<5.0	ND<5.0	ND<2.5	0.025	NA
Aroclor1242	ND<5.0	ND<5.0	ND<5.0	ND<2.5	0.025	NA
Aroclor1248	ND<5.0	ND<5.0	ND<5.0	ND<2.5	0.025	NA
Aroclor1254	ND<5.0	6.1	13	9.5	0.025	NA
Aroclor1260	ND<5.0	ND<5.0	ND<5.0	ND<2.5	0.025	NA
PCBs, total	ND<5.0	6.1	13	9.5	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	---	---	89	90		
Comments	a1,a14,h4	h4	h4	h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  a1) sample diluted due to matrix interference a14) reporting limit raised due to the physical nature of the sample h4) sulfuric acid permanganate (EPA 3665) cleanup						


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 Angela Rydelius, Lab Manager

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081; 100 California St		Date Sampled: 06/08/09			
			Date Received: 06/08/09			
	Client Contact: Pat Garrett		Date Extracted: 06/08/09			
	Client P.O.:		Date Analyzed 06/09/09-06/10/09			
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0906253						
Lab ID	0906253-005A	0906253-006A	0906253-007A	0906253-008A	Reporting Limit for DF =1	
Client ID	9081-BM 5	9081-BM 6	9081-BM 7	9081-BM 8		
Matrix	S	S	S	S		
DF	1	20	50	50		
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<0.50	ND<10	ND<25	ND<25	0.025	NA
Aroclor1221	ND<0.50	ND<10	ND<25	ND<25	0.025	NA
Aroclor1232	ND<0.50	ND<10	ND<25	ND<25	0.025	NA
Aroclor1242	ND<0.50	ND<10	ND<25	ND<25	0.025	NA
Aroclor1248	ND<0.50	ND<10	ND<25	ND<25	0.025	NA
Aroclor1254	1.6	ND<10	ND<25	ND<25	0.025	NA
Aroclor1260	ND<0.50	ND<10	ND<25	ND<25	0.025	NA
PCBs, total	1.6	ND<10	ND<25	ND<25	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	126	---	---	---		
Comments	h4	a1,a14,h4	a1,a14,h4	a1,a14,h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  a1) sample diluted due to matrix interference a14) reporting limit raised due to the physical nature of the sample h4) sulfuric acid permanganate (EPA 3665) cleanup						


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EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081; 100 California St		Date Sampled: 06/08/09		
			Date Received: 06/08/09		
	Client Contact: Pat Garrett		Date Extracted: 06/08/09		
	Client P.O.:		Date Analyzed 06/09/09-06/10/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0906253					
Lab ID	0906253-009A	0906253-010A	0906253-011A		Reporting Limit for DF =1
Client ID	9081-BM 9	9081-BM 10	9081-BM 11		
Matrix	S	S	S		
DF	20	100	20		
Compound	Concentration			mg/kg	ug/L
Aroclor1016	ND<10	ND<50	ND<10		0.025 NA
Aroclor1221	ND<10	ND<50	ND<10		0.025 NA
Aroclor1232	ND<10	ND<50	ND<10		0.025 NA
Aroclor1242	ND<10	ND<50	ND<10		0.025 NA
Aroclor1248	ND<10	ND<50	ND<10		0.025 NA
Aroclor1254	ND<10	61	ND<10		0.025 NA
Aroclor1260	ND<10	ND<50	ND<10		0.025 NA
PCBs, total	ND<10	61	ND<10		0.025 NA
<b>Surrogate Recoveries (%)</b>					
%SS:	---	---	---		
Comments	a1,a14,h4	h4	a1,a14,h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  a1) sample diluted due to matrix interference a14) reporting limit raised due to the physical nature of the sample h4) sulfuric acid permanganate (EPA 3665) cleanup					

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**QC SUMMARY REPORT FOR SW8082**

W.O. Sample Matrix: Solid

QC Matrix: Soil

BatchID: 43734

WorkOrder 0906253

EPA Method SW8082		Extraction SW3550C							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	N/A	0.075	N/A	N/A	N/A	100	103	2.38	N/A	N/A	70 - 130	20
%SS:	N/A	0.050	N/A	N/A	N/A	88	101	13.7	N/A	N/A	70 - 130	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

**BATCH 43734 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0906253-001A	06/08/09	06/08/09	06/10/09 11:11 AM	0906253-002A	06/08/09	06/08/09	06/10/09 11:11 AM
0906253-003A	06/08/09	06/08/09	06/09/09 3:27 PM	0906253-004A	06/08/09	06/08/09	06/09/09 4:06 PM
0906253-005A	06/08/09	06/08/09	06/09/09 1:32 PM	0906253-006A	06/08/09	06/08/09	06/09/09 4:24 PM
0906253-007A	06/08/09	06/08/09	06/09/09 6:18 PM	0906253-008A	06/08/09	06/08/09	06/09/09 10:06 PM
0906253-009A	06/08/09	06/08/09	06/09/09 5:33 PM	0906253-010A	06/08/09	06/08/09	06/09/09 9:56 PM
0906253-011A	06/08/09	06/08/09	06/09/09 7:23 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.


% Recovery =  $100 * (MS - Sample) / (Amount Spiked)$ ; RPD =  $100 * (MS - MSD) / ((MS + MSD) / 2)$ .

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.


N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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 QA/QC Officer



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EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081	Date Sampled: 06/09/09	
		Date Received: 06/09/09	
	Client Contact: Pat Garrett	Date Reported: 06/12/09	
	Client P.O.:	Date Completed: 06/12/09	

**WorkOrder: 0906293**

June 12, 2009

Dear Pat:

Enclosed within are:

- 1) The results of the 6 analyzed samples from your project: #9081,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

**TURN AR**

**McC Campbell Analytical, Inc.**

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0906293

ClientCode: EVNN

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## Report to:

Pat Garrett  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
415-883-7575 FAX 415-883-7475

Email: pgarrett@environova.com  
cc:  
PO:  
ProjectNo: #9081

## Bill to:

Accounts Payable  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
accounts@environova.com

Requested TAT: 3 days

Date Received: 06/09/2009

Date Printed: 06/09/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0906293-001	9081-WGP-1	Solid	6/9/2009	<input type="checkbox"/>	A											
0906293-002	9081-WGP-2	Solid	6/9/2009	<input type="checkbox"/>	A											
0906293-003	9081-WGP-3	Solid	6/9/2009	<input type="checkbox"/>	A											
0906293-004	9081-CVM-1	Solid	6/9/2009	<input type="checkbox"/>	A											
0906293-005	9081-CVM-2	Solid	6/9/2009	<input type="checkbox"/>	A											
0906293-006	9081-CVM-3	Solid	6/9/2009	<input type="checkbox"/>	A											

Test Legend:

1	8082A_PCB_Solid	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Melissa VallesComments: Due Friday COB

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.

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---	---

**Sample Receipt Checklist**

Client Name: **EnviroNova** Date and Time Received: **6/9/09 4:02:33 PM**  
 Project Name: **#9081** Checklist completed and reviewed by: **Melissa Valles**  
 WorkOrder N°: **0906293** Matrix Solid Carrier: Client Drop-In

**Chain of Custody (COC) Information**

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

**Sample Receipt Information**

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

**Sample Preservation and Hold Time (HT) Information**


All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 25.8°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

\* NOTE: If the "No" box is checked, see comments below.

-----


Client contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Comments: \_\_\_\_\_

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081		Date Sampled: 06/09/09			
			Date Received: 06/09/09			
	Client Contact: Pat Garrett		Date Extracted: 06/09/09			
	Client P.O.:		Date Analyzed 06/09/09-06/12/09			
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0906293						
Lab ID	0906293-001A	0906293-002A	0906293-003A	0906293-004A	Reporting Limit for DF =1	
Client ID	9081-WGP-1	9081-WGP-2	9081-WGP-3	9081-CVM-1		
Matrix	S	S	S	S		
DF	100	20	10	100		
<b>Compound</b>	<b>Concentration</b>				<b>mg/kg</b>	<b>ug/L</b>
Aroclor1016	ND<50	ND<10	ND<5.0	ND<50	0.025	NA
Aroclor1221	ND<50	ND<10	ND<5.0	ND<50	0.025	NA
Aroclor1232	ND<50	ND<10	ND<5.0	ND<50	0.025	NA
Aroclor1242	ND<50	ND<10	ND<5.0	ND<50	0.025	NA
Aroclor1248	ND<50	ND<10	ND<5.0	ND<50	0.025	NA
Aroclor1254	230	23	12	230	0.025	NA
Aroclor1260	ND<50	ND<10	ND<5.0	ND<50	0.025	NA
PCBs, total	230	23	12	230	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	---	---	---	---		
Comments	h4	h4	h4	h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  h4) sulfuric acid permanganate (EPA 3665) cleanup						

DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager

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EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122		Client Project ID: #9081		Date Sampled: 06/09/09		
				Date Received: 06/09/09		
		Client Contact: Pat Garrett		Date Extracted: 06/09/09		
		Client P.O.:		Date Analyzed 06/09/09-06/12/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0906293						
Lab ID	0906293-005A	0906293-006A			Reporting Limit for DF =1	
Client ID	9081-CVM-2	9081-CVM-3				
Matrix	S	S				
DF	100	1000				
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<50	ND<500			0.025	NA
Aroclor1221	ND<50	ND<500			0.025	NA
Aroclor1232	ND<50	ND<500			0.025	NA
Aroclor1242	ND<50	ND<500			0.025	NA
Aroclor1248	ND<50	ND<500			0.025	NA
Aroclor1254	440	910			0.025	NA
Aroclor1260	ND<50	ND<500			0.025	NA
PCBs, total	440	910			0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	---	#	---	#		
Comments	h4	h4				
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  h4) sulfuric acid permanganate (EPA 3665) cleanup						

DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager



**McC Campbell Analytical, Inc.**

"When Quality Counts"

 1534 Willow Pass Road, Pittsburg, CA 94565-1701  
 Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
 Telephone: 877-252-9262 Fax: 925-252-9269
**QC SUMMARY REPORT FOR SW8082**

W.O. Sample Matrix: Solid

QC Matrix: Soil

BatchID: 43755

WorkOrder: 0906293

EPA Method SW8082		Extraction SW3550C							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	N/A	0.075	N/A	N/A	N/A	109	107	2.15	N/A	N/A	70 - 130	20
%SS:	N/A	0.050	N/A	N/A	N/A	107	108	0.485	N/A	N/A	70 - 130	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

**BATCH 43755 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0906293-001A	06/09/09	06/09/09	06/11/09 10:12 AM	0906293-002A	06/09/09	06/09/09	06/11/09 6:57 PM
0906293-003A	06/09/09	06/09/09	06/11/09 7:52 PM	0906293-003A	06/09/09	06/09/09	06/12/09 1:21 AM
0906293-004A	06/09/09	06/09/09	06/11/09 12:58 PM	0906293-005A	06/09/09	06/09/09	06/11/09 4:10 PM
0906293-006A	06/09/09	06/09/09	06/09/09 11:42 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$$


MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269	
EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081	Date Sampled: 06/09/09	
		Date Received: 06/09/09	
	Client Contact: Pat Garrett	Date Reported: 06/12/09	
	Client P.O.:	Date Completed: 06/12/09	

**WorkOrder: 0906294**

June 12, 2009

Dear Pat:

Enclosed within are:

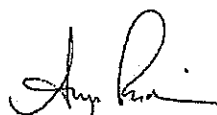
- 1) The results of the 6 analyzed samples from your project: #9081,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

0906204

<b>McCAMPBELL ANALYTICAL, INC.</b> 1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701 Website: <a href="http://www.mccampbell.com">www.mccampbell.com</a> Email: <a href="mailto:main@mccampbell.com">main@mccampbell.com</a> Telephone: (877) 252-9262 Fax: (925) 252-9269					<b>RUSH CHAIN OF CUSTODY RECORD</b> TURN AROUND TIME <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>																										
Report To: <u>PAT GARRET</u> Bill To: _____ Company: <u>ENVIRONOVA LLC</u>					<input type="checkbox"/> GeoTracker EDF <input type="checkbox"/> PDF <input type="checkbox"/> Excel <input type="checkbox"/> Write On (DW)																										
E-Mail: _____ Tele: (415) <u>408-8691</u> Fax: ( ) _____ Project #: <u>9081</u> Project Name: _____ Project Location: <u>100 CALIFORNIA STREET</u> Sampler Signature: <u>[Signature]</u>					Analysis Request _____ Other _____ Comments _____																										
SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (815)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 505 / 608 / 8081 (CI Pesticides)	EPA 608 / 8093 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 514.2 / 624 / 8160 (VOCs)	EPA 515.1 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAN 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Filter Samples for Metals analysis: Yes / No
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO <sub>3</sub>	Other																	
9081-WGP-4	D13-13	6-9-09																													
9081-WGP-5	D13-9																														
9081-WGP-6	D13-7																														
9081-CVM-4	D13-13																														
9081-CVM-5	D13-9																														
9081-CVM-6	D13-7																														
Relinquished By: <u>[Signature]</u>		Date: <u>6-9-09</u>	Time: <u>1539</u>	Received By: <u>[Signature]</u>		COMMENTS: ICE/T <u>25.0</u> ✓ GOOD CONDITION ✓ HEAD SPACE ABSENT ✓ DECHLORINATED IN LAB ✓ APPROPRIATE CONTAINERS ✓ PRESERVED IN LAB ✓ VOAS O&G METALS OTHER PRESERVATION pH<2																									
Relinquished By: _____		Date: _____	Time: _____	Received By: _____																											
Relinquished By: _____		Date: _____	Time: _____	Received By: _____																											

**McC Campbell Analytical, Inc.**

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0906294

ClientCode: EVNN

☐ WriteOn☐ EDF☐ Excel☐ Fax☒ Email☐ HardCopy☐ ThirdParty☐ J-flag

## Report to:

Pat Garrett  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
415-883-7575 FAX 415-883-7475

Email: pgarrett@environova.com

cc:

PO:

ProjectNo: #9081

## Bill to:

Accounts Payable  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
accounts@environova.com

Requested TAT: 4 days

Date Received: 06/09/2009

Date Printed: 06/09/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0906294-001	9081-WGP 4	Solid	6/9/2009	<input type="checkbox"/>	A											
0906294-002	9081-WGP-5	Solid	6/9/2009	<input type="checkbox"/>	A											
0906294-003	9081-WGP-6	Solid	6/9/2009	<input type="checkbox"/>	A											
0906294-004	9081-CVM-4	Solid	6/9/2009	<input type="checkbox"/>	A											
0906294-005	9081-CVM-5	Solid	6/9/2009	<input type="checkbox"/>	A											
0906294-006	9081-CVM-6	Solid	6/9/2009	<input type="checkbox"/>	A											

Test Legend:

1	8082A_PCB_Solid
6	
11	

2	
7	
12	

3	
8	

4	
9	

5	
10	

Prepared by: Melissa Valles

## Comments:

Due Friday COB

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).

Hazardous samples will be returned to client or disposed of at client expense.

**McC Campbell Analytical, Inc.**

"When Quality Counts"

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 Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
 Telephone: 877-252-9262 Fax: 925-252-9269
**Sample Receipt Checklist**Client Name: **EnviroNova**Date and Time Received: **6/9/09 4:09:00 PM**Project Name: **#9081**Checklist completed and reviewed by: **Melissa Valles**WorkOrder N°: **0906294**Matrix SolidCarrier: Client Drop-In**Chain of Custody (COC) Information**

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

**Sample Receipt Information**

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 25.8°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
TTLIC Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

\* NOTE: If the "No" box is checked, see comments below.


=====

Client contacted:


Date contacted:

Contacted by:


Comments:

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081		Date Sampled: 06/09/09			
			Date Received: 06/09/09			
	Client Contact: Pat Garrett		Date Extracted: 06/09/09			
	Client P.O.:		Date Analyzed 06/11/09-06/12/09			
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0906294						
Lab ID	0906294-001A	0906294-002A	0906294-003A	0906294-004A	Reporting Limit for DF =1	
Client ID	9081-WGP 4	9081-WGP-5	9081-WGP-6	9081-CVM-4		
Matrix	S	S	S	S		
DF	20	20	20	2000	S	W
<b>Compound</b>	<b>Concentration</b>				<b>mg/kg</b>	<b>ug/L</b>
Aroclor1016	ND<10	ND<10	ND<10	ND<1000	0.025	NA
Aroclor1221	ND<10	ND<10	ND<10	ND<1000	0.025	NA
Aroclor1232	ND<10	ND<10	ND<10	ND<1000	0.025	NA
Aroclor1242	ND<10	ND<10	ND<10	ND<1000	0.025	NA
Aroclor1248	ND<10	ND<10	ND<10	ND<1000	0.025	NA
Aroclor1254	37	37	40	2500	0.025	NA
Aroclor1260	ND<10	ND<10	ND<10	ND<1000	0.025	NA
PCBs, total	37	37	40	2500	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	---	---	---	---		
Comments	h4	h4	h4	h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  h4) sulfuric acid permanganate (EPA 3665) cleanup						

DHS ELAP Certification 1644


 Angela Rydelius, Lab Manager



 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081		Date Sampled: 06/09/09			
			Date Received: 06/09/09			
	Client Contact: Pat Garrett		Date Extracted: 06/09/09			
	Client P.O.:		Date Analyzed 06/11/09-06/12/09			
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0906294						
Lab ID	0906294-005A	0906294-006A			Reporting Limit for DF =1	
Client ID	9081-CVM-5	9081-CVM-6				
Matrix	S	S				
DF	2000	1000				
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<1000	ND<500			0.025	NA
Aroclor1221	ND<1000	ND<500			0.025	NA
Aroclor1232	ND<1000	ND<500			0.025	NA
Aroclor1242	ND<1000	ND<500			0.025	NA
Aroclor1248	ND<1000	ND<500			0.025	NA
Aroclor1254	2700	3500			0.025	NA
Aroclor1260	ND<1000	1700			0.025	NA
PCBs, total	2700	5200			0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	---	---				
Comments	h4	h4				
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  h4) sulfuric acid permanganate (EPA 3665) cleanup						

DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269
---	---

**QC SUMMARY REPORT FOR SW8082**

W.O. Sample Matrix: Solid

QC Matrix: Soil

BatchID: 43755

WorkOrder: 0906294

EPA Method SW8082		Extraction SW3550C							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	N/A	0.075	N/A	N/A	N/A	109	107	2.15	N/A	N/A	70 - 130	20
%SS:	N/A	0.050	N/A	N/A	N/A	107	108	0.485	N/A	N/A	70 - 130	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

**BATCH 43755 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0906294-001A	06/09/09	06/09/09	06/11/09 8:47 PM	0906294-002A	06/09/09	06/09/09	06/11/09 11:31 PM
0906294-003A	06/09/09	06/09/09	06/12/09 12:26 AM	0906294-004A	06/09/09	06/09/09	06/11/09 11:31 PM
0906294-005A	06/09/09	06/09/09	06/12/09 12:26 AM	0906294-006A	06/09/09	06/09/09	06/11/09 8:05 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.


$$\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$$


MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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 QA/QC Officer

 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269	
EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122	Client Project ID: #9081	Date Sampled: 06/09/09
	Client Contact: Pat Garrett	Date Received: 06/09/09
	Client P.O.:	Date Reported: 06/12/09
	Date Completed: 06/12/09	

WorkOrder: 0906292

June 12, 2009

Dear Pat:

Enclosed within are:

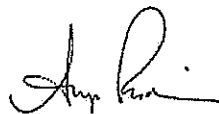
- 1) The results of the 6 analyzed samples from your project: #9081,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

07.13.2010

**McC Campbell Analytical, Inc.**

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0906292

ClientCode: EVNN

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## Report to:

Pat Garrett  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
415-883-7575 FAX 415-883-7475

Email: pgarrett@environova.com

cc:

PO:

ProjectNo: #9081

## Bill to:

Accounts Payable  
EnviroNova  
110 Landing Court, Suite B  
Novato, CA 94945-4122  
accounts@environova.com

Requested TAT: 4 days

Date Received: 06/09/2009

Date Printed: 06/09/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0906292-001	9081-WGP-7	Solid	6/9/2009	<input type="checkbox"/>	A											
0906292-002	9081-WGP-8	Solid	6/9/2009	<input type="checkbox"/>	A											
0906292-003	9081-WGP-9	Solid	6/9/2009	<input type="checkbox"/>	A											
0906292-004	9081-CVM-7	Solid	6/9/2009	<input type="checkbox"/>	A											
0906292-005	9081-CVM-8	Solid	6/9/2009	<input type="checkbox"/>	A											
0906292-006	9081-CVM-9	Solid	6/9/2009	<input type="checkbox"/>	A											

## Test Legend:

1	8082A_PCB_Solid	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Melissa Valles

Comments: Due Friday COB

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.

	<b>McC Campbell Analytical, Inc.</b> "When Quality Counts"	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269
---	---	---

### Sample Receipt Checklist

Client Name: **EnviroNova** Date and Time Received: **6/9/09 3:55:10 PM**  
 Project Name: **#9081** Checklist completed and reviewed by: **Melissa Valles**  
 WorkOrder N°: **0906292** Matrix Solid Carrier: Client Drop-In

#### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

#### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

#### Sample Preservation and Hold Time (HT) Information


All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 25.8°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
TTLIC Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

\* NOTE: If the "No" box is checked, see comments below.

Client contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_


Comments: \_\_\_\_\_



 <b>McC Campbell Analytical, Inc.</b> "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122		Client Project ID: #9081		Date Sampled: 06/09/09		
				Date Received: 06/09/09		
		Client Contact: Pat Garrett		Date Extracted: 06/09/09		
		Client P.O.:		Date Analyzed 06/11/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b> Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0906292						
Lab ID	0906292-001A	0906292-002A	0906292-003A	0906292-004A	Reporting Limit for DF =1	
Client ID	9081-WGP-7	9081-WGP-8	9081-WGP-9	9081-CVM-7		
Matrix	S	S	S	S		
DF	50	20	20	100		
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<25	ND<10	ND<10	ND<50	0.025	NA
Aroclor1221	ND<25	ND<10	ND<10	ND<50	0.025	NA
Aroclor1232	ND<25	ND<10	ND<10	ND<50	0.025	NA
Aroclor1242	ND<25	ND<10	ND<10	ND<50	0.025	NA
Aroclor1248	ND<25	ND<10	ND<10	ND<50	0.025	NA
Aroclor1254	54	38	18	190	0.025	NA
Aroclor1260	ND<25	ND<10	ND<10	ND<50	0.025	NA
PCBs, total	54	38	18	190	0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	---	---	---	---		
Comments	h4	h4	h4	h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  h4) sulfuric acid permanganate (EPA 3665) cleanup						


DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager

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EnviroNova  110 Landing Court, Suite B  Novato, CA 94945-4122		Client Project ID: #9081		Date Sampled: 06/09/09		
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		Client P.O.:		Date Analyzed 06/11/09		
<b>Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*</b>						
Extraction Method: SW3550C		Analytical Method: SW8082		Work Order: 0906292		
Lab ID	0906292-005A	0906292-006A			Reporting Limit for DF =1	
Client ID	9081-CVM-8	9081-CVM-9				
Matrix	S	S				
DF	100	100				
<b>Compound</b>	<b>Concentration</b>				<b>mg/kg</b>	<b>ug/L</b>
Aroclor1016	ND<50	ND<50			0.025	NA
Aroclor1221	ND<50	ND<50			0.025	NA
Aroclor1232	ND<50	ND<50			0.025	NA
Aroclor1242	ND<50	ND<50			0.025	NA
Aroclor1248	ND<50	ND<50			0.025	NA
Aroclor1254	250	270			0.025	NA
Aroclor1260	ND<50	ND<50			0.025	NA
PCBs, total	250	270			0.025	NA
<b>Surrogate Recoveries (%)</b>						
%SS:	---	---				
Comments	h4	h4				
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.  ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  # surrogate diluted out of range or surrogate coelutes with another peak.  h4) sulfuric acid permanganate (EPA 3665) cleanup						

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## QC SUMMARY REPORT FOR SW8082

W.O. Sample Matrix: Solid

QC Matrix: Soil

BatchID: 43734

WorkOrder 0906292

EPA Method SW8082		Extraction SW3550C							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	N/A	0.075	N/A	N/A	N/A	100	103	2.38	N/A	N/A	70 - 130	20
%SS:	N/A	0.050	N/A	N/A	N/A	88	101	13.7	N/A	N/A	70 - 130	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

## BATCH 43734 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0906292-001A	06/09/09	06/09/09	06/11/09 6:57 PM	0906292-002A	06/09/09	06/09/09	06/11/09 7:52 PM
0906292-003A	06/09/09	06/09/09	06/11/09 8:47 PM	0906292-004A	06/09/09	06/09/09	06/11/09 12:58 PM
0906292-005A	06/09/09	06/09/09	06/11/09 4:10 PM	0906292-006A	06/09/09	06/09/09	06/11/09 5:05 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.


$$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$$

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

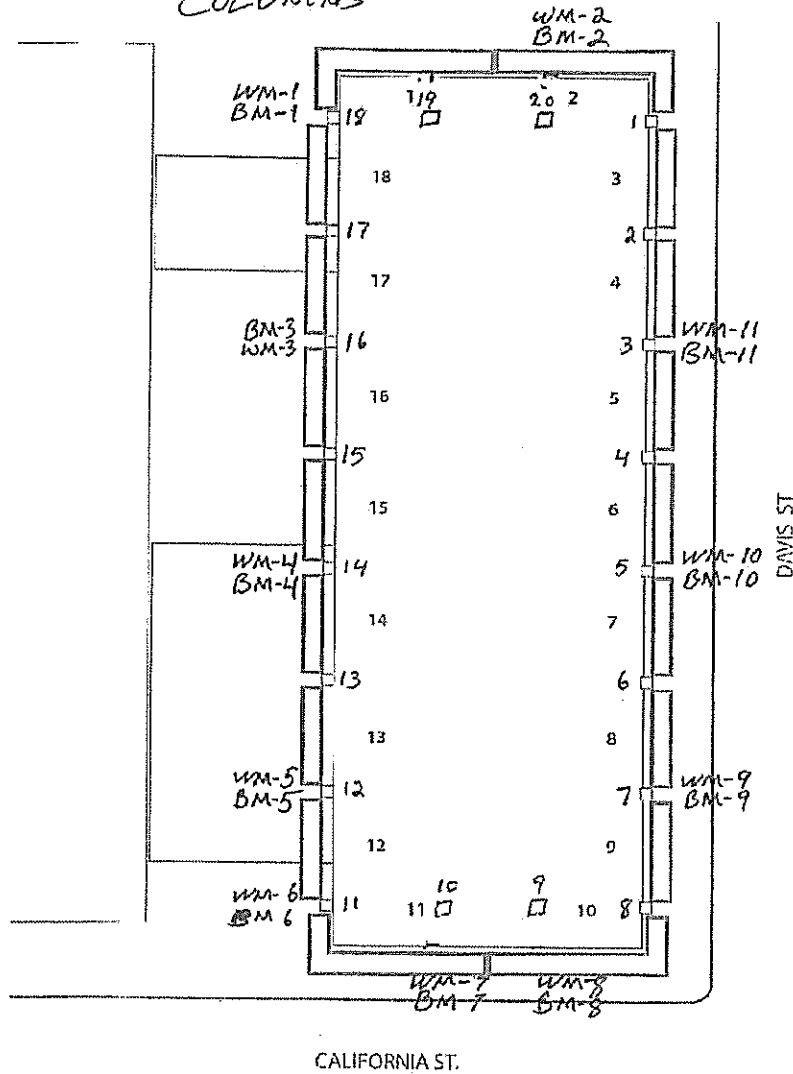
 QA/QC Officer



# 100 California Swing Stage Drop Diagram

COLLECTED 6/8/09

COLUMNS

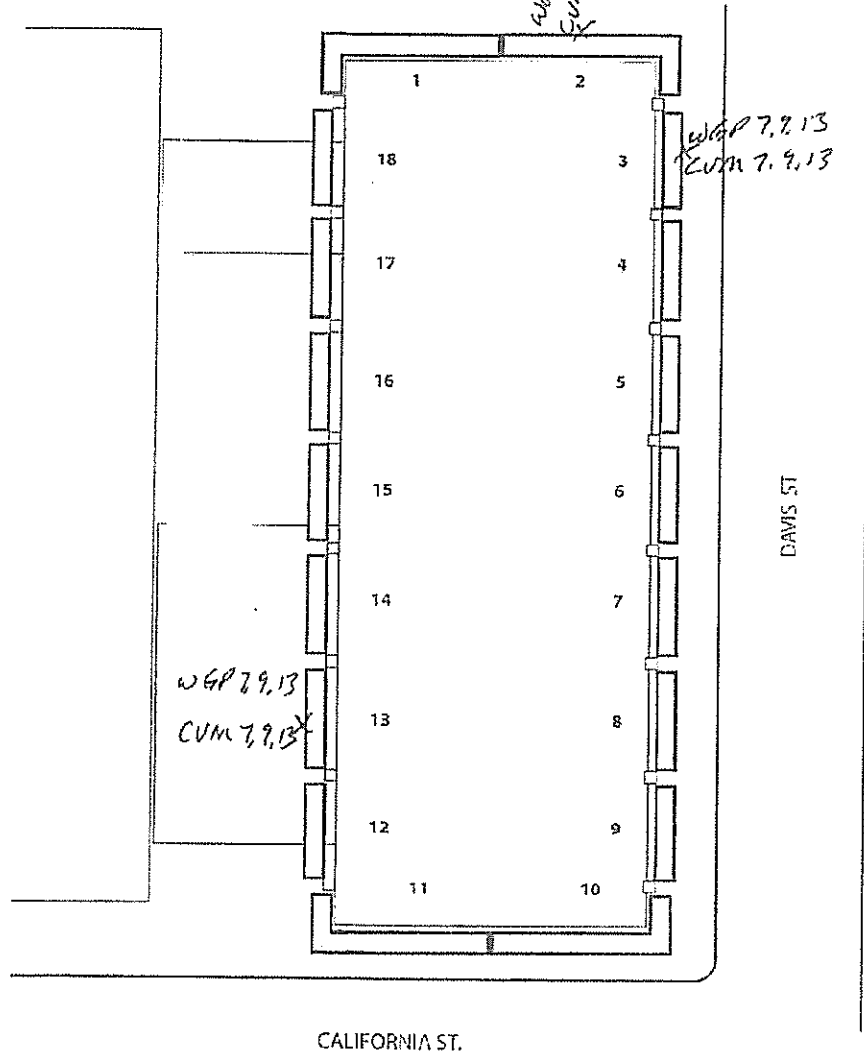




# 100 California Swing Stage Drop Diagram

COLLECTED 6/9/09

WGP 7.9.13  
CUM 7.9.13



## Attachment G

### Electronic Code of Federal Regulations



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## Electronic Code of Federal Regulations

*e-CFR*

TM

**e-CFR Data is current as of September 17, 2009**

### Title 40: Protection of Environment

[PART 761—POLYCHLORINATED BIPHENYLS \(PCBs\) MANUFACTURING, PROCESSING,](#)

[DISTRIBUTION IN COMMERCE, AND USE PROHIBITIONS](#)

[Subpart D—Storage and Disposal](#)

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#### § 761.61 PCB remediation waste.

This section provides cleanup and disposal options for PCB remediation waste. Any person cleaning up and disposing of PCBs managed under this section shall do so based on the concentration at which the PCBs are found. This section does not prohibit any person from implementing temporary emergency measures to prevent, treat, or contain further releases or mitigate migration to the environment of PCBs or PCB remediation waste.

(a) *Self-implementing on-site cleanup and disposal of PCB remediation waste.* EPA designed the self-implementing procedure for a general, moderately-sized site where there should be low residual environmental impact from remedial activities. The procedure may be less practical for larger or environmentally diverse sites. For these other sites, the self-implementing procedure still applies, but an EPA Regional Administrator may authorize more practical procedures through paragraph (c) of this section. Any person may conduct self-implementing cleanup and disposal of PCB remediation waste in accordance with the following requirements without prior written approval from EPA.

(1) *Applicability.* (i) The self-implementing procedures may not be used to clean up:

(A) Surface or ground waters.

(B) Sediments in marine and freshwater ecosystems.

(C) Sewers or sewage treatment systems.

(D) Any private or public drinking water sources or distribution systems.

(E) Grazing lands.

(F) Vegetable gardens.

(ii) The self-implementing cleanup provisions shall not be binding upon cleanups conducted under other authorities, including but not limited to, actions conducted under section 104 or section 106 of CERCLA, or section 3004(u) and (v) or section 3008(h) of RCRA.

(2) *Site characterization.* Any person conducting self-implementing cleanup of PCB remediation waste must characterize the site adequately to be able to provide the information required by paragraph (a)(3) of this section. Subpart N of this part provides a method for collecting new site characterization data or for assessing the sufficiency of existing site characterization data.

(3) *Notification and certification.* (i) At least 30 days prior to the date that the cleanup of a site begins, the person in charge of the cleanup or the owner of the property where the PCB remediation waste is

located shall notify, in writing, the EPA Regional Administrator, the Director of the State or Tribal environmental protection agency, and the Director of the county or local environmental protection agency where the cleanup will be conducted. The notice shall include:

(A) The nature of the contamination, including kinds of materials contaminated.

(B) A summary of the procedures used to sample contaminated and adjacent areas and a table or cleanup site map showing PCB concentrations measured in all pre-cleanup characterization samples. The summary must include sample collection and analysis dates. The EPA Regional Administrator may require more detailed information including, but not limited to, additional characterization sampling or all sample identification numbers from all previous characterization activities at the cleanup site.

(C) The location and extent of the identified contaminated area, including topographic maps with sample collection sites cross referenced to the sample identification numbers in the data summary from paragraph (a)(3)(i)(B) of this section.

(D) A cleanup plan for the site, including schedule, disposal technology, and approach. This plan should contain options and contingencies to be used if unanticipated higher concentrations or wider distributions of PCB remediation waste are found or other obstacles force changes in the cleanup approach.

(E) A written certification, signed by the owner of the property where the cleanup site is located and the party conducting the cleanup, that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the cleanup site, are on file at the location designated in the certificate, and are available for EPA inspection. Persons using alternate methods for chemical extraction and chemical analysis for site characterization must include in the certificate a statement that such a method will be used and that a comparison study which meets or exceeds the requirements of subpart Q of this part, and for which records are on file, has been completed prior to verification sampling.

(ii) Within 30 calendar days of receiving the notification, the EPA Regional Administrator will respond in writing approving of the self-implementing cleanup, disapproving of the self-implementing cleanup, or requiring additional information. If the EPA Regional Administrator does not respond within 30 calendar days of receiving the notice, the person submitting the notification may assume that it is complete and acceptable and proceed with the cleanup according to the information the person provided to the EPA Regional Administrator. Once cleanup is underway, the person conducting the cleanup must provide any proposed changes from the notification to the EPA Regional Administrator in writing no less than 14 calendar days prior to the proposed implementation of the change. The EPA Regional Administrator will determine in his or her discretion whether to accept the change, and will respond to the change notification verbally within 7 calendar days and in writing within 14 calendar days of receiving it. If the EPA Regional Administrator does not respond verbally within 7 calendar days and in writing within 14 calendar days of receiving the change notice, the person who submitted it may deem it complete and acceptable and proceed with the cleanup according to the information in the change notice provided to the EPA Regional Administrator.

(iii) Any person conducting a cleanup activity may obtain a waiver of the 30-day notification requirement, if they receive a separate waiver, in writing, from each of the agencies they are required to notify under this section. The person must retain the original written waiver as required in paragraph (a)(9) of this section.

(4) *Cleanup levels.* For purposes of cleaning, decontaminating, or removing PCB remediation waste under this section, there are four general waste categories: bulk PCB remediation waste, non-porous surfaces, porous surfaces, and liquids. Cleanup levels are based on the kind of material and the potential exposure to PCBs left after cleanup is completed.

(i) *Bulk PCB remediation waste.* Bulk PCB remediation waste includes, but is not limited to, the following non-liquid PCB remediation waste: soil, sediments, dredged materials, muds, PCB sewage sludge, and industrial sludge.

(A) *High occupancy areas.* The cleanup level for bulk PCB remediation waste in high occupancy areas is  $\leq 1$  ppm without further conditions. High occupancy areas where bulk PCB remediation waste remains at concentrations  $>1$  ppm and  $\leq 10$  ppm shall be covered with a cap meeting the requirements of paragraphs (a)(7) and (a)(8) of this section.



(B) *Low occupancy areas.* ( 1 ) The cleanup level for bulk PCB remediation waste in low occupancy areas is  $\leq 25$  ppm unless otherwise specified in this paragraph.

( 2 ) Bulk PCB remediation wastes may remain at a cleanup site at concentrations  $>25$  ppm and  $\leq 50$  ppm if the site is secured by a fence and marked with a sign including the  $M_L$  mark.

( 3 ) Bulk PCB remediation wastes may remain at a cleanup site at concentrations  $>25$  ppm and  $\leq 100$  ppm if the site is covered with a cap meeting the requirements of paragraphs (a)(7) and (a)(8) of this section.

(ii) *Non-porous surfaces.* In high occupancy areas, the surface PCB cleanup standard is  $\leq 10 \mu\text{g}/100 \text{ cm}^2$  of surface area. In low occupancy areas, the surface cleanup standard is  $<100 \mu\text{g}/100 \text{ cm}^2$  of surface area. Select sampling locations in accordance with subpart P of this part or a sampling plan approved under paragraph (c) of this section.

(iii) *Porous surfaces.* In both high and low occupancy areas, any person disposing of porous surfaces must do so based on the levels in paragraph (a)(4)(i) of this section. Porous surfaces may be cleaned up for use in accordance with §761.79(b)(4) or §761.30(p).

(iv) *Liquids.* In both high and low occupancy areas, cleanup levels are the concentrations specified in §761.79(b)(1) and (b)(2).

(v) *Change in the land use for a cleanup site.* Where there is an actual or proposed change in use of an area cleaned up to the levels of a low occupancy area, and the exposure of people or animal life in or at that area could reasonably be expected to increase, resulting in a change in status from a low occupancy area to a high occupancy area, the owner of the area shall clean up the area in accordance with the high occupancy area cleanup levels in paragraphs (a)(4)(i) through (a)(4)(iv) of this section.

(vi) The EPA Regional Administrator, as part of his or her response to a notification submitted in accordance with §761.61(a)(3) of this part, may require cleanup of the site, or portions of it, to more stringent cleanup levels than are otherwise required in this section, based on the proximity to areas such as residential dwellings, hospitals, schools, nursing homes, playgrounds, parks, day care centers, endangered species habitats, estuaries, wetlands, national parks, national wildlife refuges, commercial fisheries, and sport fisheries.

(5) *Site cleanup.* In addition to the options set out in this paragraph, PCB disposal technologies approved under §§761.60 and 761.70 are acceptable for on-site self-implementing PCB remediation waste disposal within the confines of the operating conditions of the respective approvals.

(i) *Bulk PCB remediation waste.* Any person cleaning up bulk PCB remediation waste shall do so to the levels in paragraph (a)(4)(i) of this section.

(A) Any person cleaning up bulk PCB remediation waste on-site using a soil washing process may do so without EPA approval, subject to all of the following:

( 1 ) A non-chlorinated solvent is used.

( 2 ) The process occurs at ambient temperature.

( 3 ) The process is not exothermic.

( 4 ) The process uses no external heat.

( 5 ) The process has secondary containment to prevent any solvent from being released to the underlying or surrounding soils or surface waters.

( 6 ) Solvent disposal, recovery, and/or reuse is in accordance with relevant provisions of approvals issued according to paragraphs (b)(1) or (c) of this section or applicable paragraphs of §761.79.

(B) Bulk PCB remediation waste may be sent off-site for decontamination or disposal in accordance with this paragraph, provided the waste is either dewatered on-site or transported off-site in containers meeting the requirements of the DOT Hazardous Materials Regulations (HMR) at 49 CFR parts 171

through 180.

( 1 ) Removed water shall be disposed of according to paragraph (b)(1) of this section.

( 2 ) Any person disposing off-site of dewatered bulk PCB remediation waste shall do so as follows:

( i ) Unless sampled and analyzed for disposal according to the procedures set out in §§761.283, 761.286, and 761.292, the bulk PCB remediation waste shall be assumed to contain ≥50 ppm PCBs.

( ii ) Bulk PCB remediation wastes with a PCB concentration of <50 ppm shall be disposed of in accordance with paragraph (a)(5)(v)(A) of this section.

( iii ) Bulk PCB remediation wastes with a PCB concentration ≥50 ppm shall be disposed of in a hazardous waste landfill permitted by EPA under section 3004 of RCRA, or by a State authorized under section 3006 of RCRA, or a PCB disposal facility approved under this part.

( iv ) The generator must provide written notice, including the quantity to be shipped and highest concentration of PCBs (using extraction EPA Method 3500B/3540C or Method 3500B/3550B followed by chemical analysis using EPA Method 8082 in SW-846 or methods validated under subpart Q of this part) at least 15 days before the first shipment of bulk PCB remediation waste from each cleanup site by the generator, to each off-site facility where the waste is destined for an area not subject to a TSCA PCB Disposal Approval.

( 3 ) Any person may decontaminate bulk PCB remediation waste in accordance with §761.79 and return the waste to the cleanup site for disposal as long as the cleanup standards of paragraph (a)(4) of this section are met.

(ii) *Non-porous surfaces.* PCB remediation waste non-porous surfaces shall be cleaned on-site or off-site for disposal on-site, disposal off-site, or use, as follows:

(A) For on-site disposal, non-porous surfaces shall be cleaned on-site or off-site to the levels in paragraph (a)(4)(ii) of this section using:

( 1 ) Procedures approved under §761.79.

( 2 ) Technologies approved under §761.60(e).

( 3 ) Procedures or technologies approved under paragraph (c) of this section.

(B) For off-site disposal, non-porous surfaces:

( 1 ) Having surface concentrations <100 µg/100 cm<sup>2</sup> shall be disposed of in accordance with paragraph (a)(5)(i)(B)( 2 )( ii ) of this section. Metal surfaces may be thermally decontaminated in accordance with §761.79(c)(6)(i).

( 2 ) Having surface concentrations ≥100 µg/100 cm<sup>2</sup> shall be disposed of in accordance with paragraph (a)(5)(i)(B)( 2 )( iii ) of this section. Metal surfaces may be thermally decontaminated in accordance with §761.79(c)(6)(ii).

(C) For use, non-porous surfaces shall be decontaminated on-site or off-site to the standards specified in §761.79(b)(3) or in accordance with §761.79(c).

(iii) *Porous surfaces.* Porous surfaces shall be disposed on-site or off-site as bulk PCB remediation waste according to paragraph (a)(5)(i) of this section or decontaminated for use according to §761.79(b)(4), as applicable.

(iv) *Liquids.* Any person disposing of liquid PCB remediation waste shall either:

(A) Decontaminate the waste to the levels specified in §761.79(b)(1) or (b)(2).

(B) Dispose of the waste in accordance with paragraph (b) of this section or an approval issued under paragraph (c) of this section.

(v) *Cleanup wastes.* Any person generating the following wastes during and from the cleanup of PCB remediation waste shall dispose of or reuse them using one of the following methods:

(A) Non-liquid cleaning materials and personal protective equipment waste at any concentration, including non-porous surfaces and other non-liquid materials such as rags, gloves, booties, other disposable personal protective equipment, and similar materials resulting from cleanup activities shall be either decontaminated in accordance with §761.79(b) or (c), or disposed of in one of the following facilities, without regard to the requirements of subparts J and K of this part:

(1) A facility permitted, licensed, or registered by a State to manage municipal solid waste subject to part 258 of this chapter.

(2) A facility permitted, licensed, or registered by a State to manage non-municipal non-hazardous waste subject to §§257.5 through 257.30 of this chapter, as applicable.

(3) A hazardous waste landfill permitted by EPA under section 3004 of RCRA, or by a State authorized under section 3006 of RCRA.

(4) A PCB disposal facility approved under this part.

(B) Cleaning solvents, abrasives, and equipment may be reused after decontamination in accordance with §761.79.

(6) *Cleanup verification* —(i) *Sampling and analysis.* Any person collecting and analyzing samples to verify the cleanup and on-site disposal of bulk PCB remediation wastes and porous surfaces must do so in accordance with subpart O of this part. Any person collecting and analyzing samples from non-porous surfaces must do so in accordance with subpart P of this part. Any person collecting and analyzing samples from liquids must do so in accordance with §761.269. Any person conducting interim sampling during PCB remediation waste cleanup to determine when to sample to verify that cleanup is complete, may use PCB field screening tests.

(ii) *Verification.* (A) Where sample analysis results in a measurement of PCBs less than or equal to the levels specified in paragraph (a)(4) of this section, self-implementing cleanup is complete.

(B) Where sample analysis results in a measurement of PCBs greater than the levels specified in paragraph (a)(4) of this section, self-implementing cleanup of the sampled PCB remediation waste is not complete. The owner or operator of the site must either dispose of the sampled PCB remediation waste, or reclean the waste represented by the sample and reinitiate sampling and analysis in accordance with paragraph (a)(6)(i) of this section.

(7) *Cap requirements.* A cap means, when referring to on-site cleanup and disposal of PCB remediation waste, a uniform placement of concrete, asphalt, or similar material of minimum thickness spread over the area where remediation waste was removed or left in place in order to prevent or minimize human exposure, infiltration of water, and erosion. Any person designing and constructing a cap must do so in accordance with §264.310(a) of this chapter, and ensure that it complies with the permeability, sieve, liquid limit, and plasticity index parameters in §761.75(b)(1)(ii) through (b)(1)(v). A cap of compacted soil shall have a minimum thickness of 25 cm (10 inches). A concrete or asphalt cap shall have a minimum thickness of 15 cm (6 inches). A cap must be of sufficient strength to maintain its effectiveness and integrity during the use of the cap surface which is exposed to the environment. A cap shall not be contaminated at a level  $\geq 1$  ppm PCB per Aroclor™ (or equivalent) or per congener. Repairs shall begin within 72 hours of discovery for any breaches which would impair the integrity of the cap.

(8) *Deed restrictions for caps, fences and low occupancy areas.* When a cleanup activity conducted under this section includes the use of a fence or a cap, the owner of the site must maintain the fence or cap, in perpetuity. In addition, whenever a cap, or the procedures and requirements for a low occupancy area, is used, the owner of the site must meet the following conditions:

(i) Within 60 days of completion of a cleanup activity under this section, the owner of the property shall:

(A) Record, in accordance with State law, a notation on the deed to the property, or on some other



instrument which is normally examined during a title search, that will in perpetuity notify any potential purchaser of the property:

( 1 ) That the land has been used for PCB remediation waste disposal and is restricted to use as a low occupancy area as defined in §761.3.

( 2 ) Of the existence of the fence or cap and the requirement to maintain the fence or cap.

( 3 ) The applicable cleanup levels left at the site, inside the fence, and/or under the cap.

(B) Submit a certification, signed by the owner, that he/she has recorded the notation specified in paragraph (a)(8)(i)(A) of this section to the EPA Regional Administrator.

(ii) The owner of a site being cleaned up under this section may remove a fence or cap after conducting additional cleanup activities and achieving cleanup levels, specified in paragraph (a)(4) of this section, which do not require a cap or fence. The owner may remove the notice on the deed no earlier than 30 days after achieving the cleanup levels specified in this section which do not require a fence or cap.

(9) *Recordkeeping.* For paragraphs (a)(3), (a)(4), and (a)(5) of this section, recordkeeping is required in accordance with §761.125(c)(5).

(b) *Performance-based disposal.* (1) Any person disposing of liquid PCB remediation waste shall do so according to §761.60(a) or (e), or decontaminate it in accordance with §761.79.

(2) Any person disposing of non-liquid PCB remediation waste shall do so by one of the following methods:

(i) Dispose of it in a high temperature incinerator approved under §761.70(b), an alternate disposal method approved under §761.60(e), a chemical waste landfill approved under §761.75, or in a facility with a coordinated approval issued under §761.77.

(ii) Decontaminate it in accordance with §761.79.

(3) Any person may manage or dispose of material containing <50 ppm PCBs that has been dredged or excavated from waters of the United States:

(i) In accordance with a permit that has been issued under section 404 of the Clean Water Act, or the equivalent of such a permit as provided for in regulations of the U.S. Army Corps of Engineers at 33 CFR part 320.

(ii) In accordance with a permit issued by the U.S. Army Corps of Engineers under section 103 of the Marine Protection, Research, and Sanctuaries Act, or the equivalent of such a permit as provided for in regulations of the U.S. Army Corps of Engineers at 33 CFR part 320.

(c) *Risk-based disposal approval.* (1) Any person wishing to sample, cleanup, or dispose of PCB remediation waste in a manner other than prescribed in paragraphs (a) or (b) of this section, or store PCB remediation waste in a manner other than prescribed in §761.65, must apply in writing to the Regional Administrator in the Region where the sampling, cleanup, disposal, or storage site is located, for sampling, cleanup, disposal, or storage occurring in a single EPA Region; or to the Director, Office of Resource Conservation and Recovery, for sampling, cleanup, disposal, or storage occurring in more than one EPA Region. Each application must include information described in the notification required by paragraph (a)(3) of this section. EPA may request other information that it believes necessary to evaluate the application. No person may conduct cleanup activities under this paragraph prior to obtaining written approval by EPA.

(2) EPA will issue a written decision on each application for a risk-based method for PCB remediation wastes. EPA will approve such an application if it finds that the method will not pose an unreasonable risk of injury to health or the environment.

[63 FR 35448, June 29, 1998, as amended at 64 FR 33761, June 24, 1999; 72 FR 57239, Oct. 9, 2007; 74 FR 30232, June 25, 2009]



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